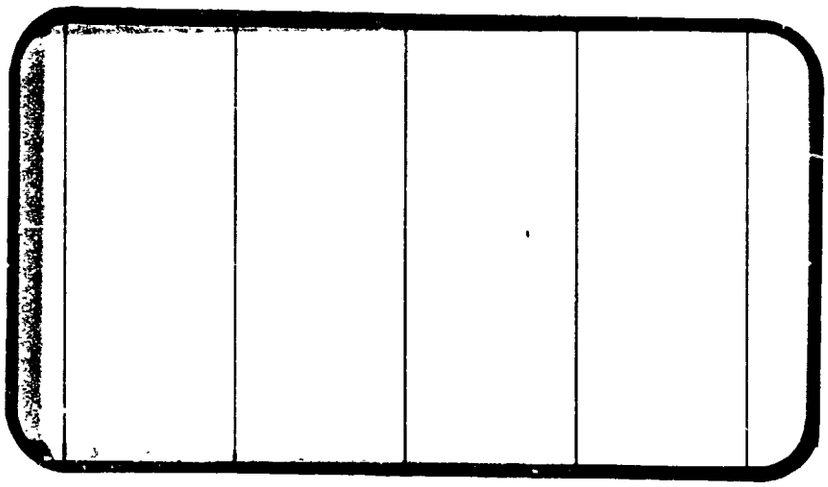
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-
128799



(NASA-CR-128799) RESULTS OF TESTS OF A 0.010- AND 0.015-SCALE MODELS OF SPACE SHUTTLE ORBITER CONFIGURATIONS 3 AND 3A IN THE AMES RESEARCH CENTER (Chrysler Corp.) 762 p HC $41.25 CSCL 22B G3/31

N74-35275

Unclas
51000

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

September, 1974

DMS-DR-2071
NASA CR-128,799

RESULTS OF TESTS OF 0.010- AND 0.015-SCALE MODELS OF SPACE SHUTTLE ORBITER CONFIGURATIONS 3 AND 3A IN THE AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL (OA23)

By

T. J. Dziubala and M. D. Milam, Rockwell International
J. W. Cleary and J. A. Mellenthin, NASA Ames

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:	ARC 3.5-168
NASA Series No:	OA23
Test Date:	19 July to 31 July, 1973
Model Number:	32-0, 49-0

FACILITY COORDINATOR:

S. L. Treon
Mail Stop 227-5
Ames Research Center
Moffett Field, California 94035

Phone: (415) 965-5850

PROJECT ENGINEERS:

T. J. Dziubala and M. D. Milam
Rockwell International Space Div.
12214 Lakewood Blvd.
Mail Code AC-07
Downey, California 90241

Phone: (213) 922-4185

J. W. Cleary and J. A. Mellenthin
NASA/Ames Research Center
Mail Stop 229-1
Moffett Field, California 94035

Phone: (415) 965-6211

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--D. A. Sarver, M. J. Lanfranco
Operations--B. W. Myers

Reviewed by: B. J. Burst, J. L. Glynn

Approved: _____
N. D. Kemp, Manager
Data Management Services

Concurrence: _____
J. G. Swider, Manager
Flight Technology Branch

Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

RESULTS OF TESTS OF 0.010- AND 0.015-SCALE MODELS OF SPACE SHUTTLE ORBITER CONFIGURATIONS 3 and 3A IN THE AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL (OA23)

By

T. J. Dziubala and M. D. Milam, Rockwell International
J. W. Cleary and J. A. Mellenthin, NASA/Ames

ABSTRACT

Tests were conducted on a 0.010-scale model of the Configuration 3 and a 0.015-scale model of the Configuration 3A Space Shuttle Vehicle orbiter in the Ames Research Center 3.5-Foot Hypersonic Wind Tunnel.

Longitudinal and lateral-directional stability and control characteristics were evaluated at Mach numbers of 5.3, 7.3 and 10.3 at angles of attack up to 50 degrees with β = 0 degrees and, for a few cases, β = 5 degrees. Six-component force data, fuselage base pressures and shadowgraph patterns were recorded.

TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	2
INDEX OF DATA FIGURES	5
NOMENCLATURE	7
INTRODUCTION	13
CONFIGURATIONS INVESTIGATED	14
TEST FACILITY DESCRIPTION	16
TEST PROCEDURE	17
DATA REDUCTION	18
TABLES	
I TEST CONDITIONS	
A. 0139B MODEL	21
B. 0147B MODEL	22
II DATA SET/RUN NUMBER COLLATION SUMMARY	23
III MODEL COMPONENT DESCRIPTIONS	26
FIGURES	
MODEL	44
DATA	81
APPENDIX	
TABULATED SOURCE DATA	

INDEX OF MODEL FIGURES

Figure	Title	Page
1.	Axis Systems.	44
2.	Model Sketches.	
	a. SSV Orbiter Configuration 3 and 3A Baseline.	45
	b. SSV Orbiter Configuration 3 and 3A Model Nomenclature.	46
	c. Base Pressure Tap Locations.	47
3.	Model Photographs.	
	a. Side View Shadowgraph at Mach 5 and 0 Degrees Angle of Attack.	48
	b. Plan View Shadowgraph at Mach 5 and 0 Degrees Angle of Attack.	49
	c. Side View Oilflow Photograph at Mach 5 and 0 Degrees Angle of Attack.	50
	d. Bottom View Oilflow Photograph at Mach 5 and 0 Degrees Angle of Attack.	51
	e. Top View Oilflow Photograph at Mach 5 and 0 Degrees Angle of Attack.	52
	f. Side View Shadowgraph, at Mach 7 and 0 Degrees Angle of Attack.	53
	g. Plan View Shadowgraph, at Mach 7 and 0 Degrees Angle of Attack.	54
	h. Side View Oilflow Photograph at Mach 7 and 0 Degrees Angle of Attack.	55
	i. Bottom Side Oilflow Photograph at Mach 7 and 0 Degrees Angle of Attack.	56
	j. Top View Oilflow Photograph at Mach 7 and 0 Degrees Angle of Attack.	57

INDEX OF MODEL FIGURES
(Continued)

Figure	Title	Page
k.	Side View Shadowgraph at Mach 10 and 0 Degrees Angle of Attack.	58
l.	Side View Shadowgraph at Mach 5 and 20 Degrees Angle of Attack.	59
m.	Plan View Shadowgraph at Mach 5 and 20 Degrees Angle of Attack.	60
n.	Side View Oilflow Photograph at Mach 5 and 20 Degrees Angle of Attack.	61
o.	Bottom View Oilflow Photograph at Mach 5 and 20 Degrees Angle of Attack.	62
p.	Top View Oilflow Photograph at Mach 5 and 20 Degrees Angle of Attack.	63
q.	Side View Shadowgraph at Mach 7 and 20 Degrees Angle of Attack.	64
r.	Plan View Shadowgraph at Mach 7 and 20 Degrees Angle of Attack.	65
s.	Side View Oilflow Photograph at Mach 7 and 20 Degrees Angle of Attack.	66
t.	Bottom View Oilflow Photograph at Mach 7 and 20 Degrees Angle of Attack.	67
u.	Top View Oilflow Photograph at Mach 7 and 20 Degrees Angle of Attack.	68
v.	Side View Shadowgraph at Mach 10 and 20 Degrees Angle of Attack.	69
w.	Side View Shadowgraph at Mach 5 and 40 Degrees Angle of Attack.	70
x.	Plan View Shadowgraph at Mach 5 and 40 Degrees Angle of Attack.	71

INDEX OF MODEL FIGURES
(Concluded)

Figure	Title	Page
y.	Side View Oilflow Photograph at Mach 5 and 40 Degrees Angle of Attack.	72
z.	Bottom View Oilflow Photograph at Mach 5 and 40 Degrees Angle of Attack.	73
aa.	Top View Oilflow Photograph at Mach 5 and 40 Degrees Angle of Attack.	74
bb.	Side View Shadowgraph at Mach 7 and 40 Degrees Angle of Attack.	75
cc.	Plan View Shadowgraph at Mach 7 and 40 Degrees Angle of Attack.	76
dd.	Side View Oilflow Photograph at Mach 7 and 40 Degrees Angle of Attack.	77
ee.	Bottom View Oilflow Photograph at Mach 7 and 40 Degrees Angle of Attack.	78
ff.	Top View Oilflow Photograph at Mach 7 and 40 Degrees Angle of Attack.	79
gg.	Side View Shadowgraph at Mach 10 and 40 Degrees Angle of Attack.	80

INDEX OF DATA FIGURES

	TITLE	COEFFICIENT SCHEDULE	VARYING PARAMETERS	PAGE NUMBERS
Fig. 4	ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE)	A,B,C,D	ELEVON, BDFLAP DE, ALPHA	1-123
Fig. 5	BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE)	A,B,C,E	ELEVON, BDFLAP DBF, ALPHA	124-246
Fig. 6	SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE)	F	BETA, MACH, ALPHA	247-261
Fig. 7	ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE)	A,B,C,D	ELEVON, DE, ALPHA BDFLAP	262-421
Fig. 8	BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE)	A,B,C,E	BDFLAP, DBF, ALPHA ELEVON	422-553
Fig. 9	SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE)	F	BETA, MACH, ALPHA	554-568
Fig. 10	COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE)	A	CONFIGURATION	569-582
Fig. 11	AILERON EFFECTS 139B CONFIGURATION (0.010-SCALE)	G	ELEVON, DA	583-591
Fig. 12	SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE)	H	RUDDER	592-600

COEFFICIENT SCHEDULE

A:
CL, CN, CD, CDF, CA, CAF, CAB
CLMFWD, CLMAFT, XCP/L, L/D VS. ALPHA

CL, CN VS. CLMFWD
CL VS. CD

B:
DCL, DCN, DCD, DCDF, DCA, DCAF,
DCAB, DCMFWD, DCMAFT VS. ALPHA

C:
DCL, DCN, DCD, DCDF, DCA, DCAF, DCAB,
DCMFWD, DCMAFT VS. MACH

D:
DCL, DCN, DCD, DCA,
DCMFWD, DCMAFT VS. DE

E:
DCL, DCN, DCD, DCA,
DCMFWD, DCMAFT VS. DBF

F:
CY, CYN, CBL, DCY/DB
DCYNDB, DCBLDB VS. ALPHA

DCY/DB, DCYNDB, DCBLDB VS. MACH

G:
CY, CYN, CBL, DCY/DA, DCYNDA
DCBLDA VS. ALPHA

H:
CY, CYN, CBL, DCY/DR,
DCYNDR, DCBLDR VS. ALPHA

NOMENCLATURE
General

SYMBOL	PLOT SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$
		Reference & C.G. Definitions
A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
X_{CG}	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
Z_{CG}	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	PLOT SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $= A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qSl_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qSl_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

NOMENCLATURE (Continued)

ADDITIONS TO STANDARD LIST

SYMBOL	PLOT SYMBOL	DEFINITION
$C_{m_{fwd}}$	CLMFWD	pitching moment coefficient about forward center of gravity location.
$C_{m_{aft}}$	CLMAFT	pitching moment coefficient about aft center of gravity location.
A_{B_M}		OMS pod base area, $ft.^2$
A_{SC}		sting cavity area, $ft.^2$
C_{A_u}	CA	unadjusted balance output axial-force coefficient.
$C_{P_{b_i}}$		base pressure coefficient at station i.
ℓ_B		reference body length, inches.
X_{CP}/ℓ_B	XCP/L	longitudinal center of pressure location, fraction of body length
ΔC_N	DCN	incremental normal force coefficient, algebraic difference of two runs.
ΔC_A	DCA	incremental axial force coefficient, algebraic difference of two runs.
ΔC_{A_B}	DCAB	incremental base axial force coefficient, algebraic difference of two runs
ΔC_{A_F}	DCAF	incremental forebody axial force coefficient, algebraic difference of two runs.
ΔC_L	DCL	incremental lift coefficient, algebraic difference of two runs.
ΔC_D	DCD	incremental drag coefficient, algebraic difference of two runs.
ΔC_{D_F}	DCDF	incremental forebody drag coefficient; algebraic difference of two runs.

NOMENCLATURE (Continued)

ADDITIONS TO STANDARD LIST

SYMBOL	PLOT SYMBOL	DEFINITION
$\Delta C_{m_{FWD}}$	DCMFWD	incremental pitching moment coefficient about forward C.G., algebraic difference of two runs.
$\Delta C_{m_{AFT}}$	DCMAFT	incremental pitching moment coefficient about aft C.G., algebraic difference of two runs.
C_{Y_β}	DCY/DB	side force coefficient derivative with respect to beta. Algebraic difference of the side force coefficient of two runs divided by the algebraic difference of the side slip angle of the runs; per degree.
C_{n_β}	DCYNDB	yawing moment coefficient derivative with respect to beta. Algebraic difference of the yawing moment coefficient of two runs divided by the algebraic difference of the side slip angle of the runs; body axis system; per degree.
C_{ℓ_β}	DCBLDB	rolling moment coefficient derivative with respect to beta. Algebraic difference of rolling moment coefficient of two runs divided by algebraic difference of side slip angle of the runs; body axis system; per degree.
$C_{Y_{\delta_a}}$	DCY/DA	side force coefficient derivative with respect to total aileron deflection. Algebraic difference of the side force coefficients of two runs divided by the algebraic difference of the total aileron deflection angle of the runs; per degree.
$C_{n_{\delta_a}}$	DCYNDA	yawing moment coefficient derivative with respect to total aileron deflection. Algebraic difference of the yawing moment coefficient of two runs divided by the algebraic difference of the total aileron deflection angle of the runs; body axis system; per degree.
$C_{\ell_{\delta_a}}$	DCBLDA	rolling moment coefficient derivative with respect to total aileron deflection. Algebraic difference of the rolling moment coefficient of two runs divided by the algebraic difference of the total aileron deflection angle of the runs; body axis system; per degree.

NOMENCLATURE (Continued)

ADDITIONS TO STANDARD LIST

SYMBOL	PLOT SYMBOL	DEFINITION
$C_{Y_{\delta_r}}$	DCY/DR	side force coefficient derivative with respect to rudder deflection. Algebraic difference of the side force coefficient of two runs divided by the algebraic difference of the rudder deflection angle of the runs; body axis system; per degree.
$C_{n_{\delta_r}}$	DCYNDR	yawing moment coefficient derivative with respect to rudder deflection. Algebraic difference of the yawing moment coefficient of two runs divided by the algebraic difference of the rudder deflection angle of the runs; body axis system; per degree.
$C_{\ell_{\delta_r}}$	DCBLDR	rolling moment coefficient derivative with respect to rudder deflection. Algebraic difference of the rolling moment coefficient of two runs divided by the algebraic difference of the rudder deflection angle of the runs; body axis system; per degree.
δ_{BF}	BDFLAP	body flap deflection angle, positive deflection trailing edge down; degrees.
δ_r	RUDDER	rudder deflection angle, positive deflection trailing edge left; degrees.
δ_{SB}	SPDBRK	split rudder deflection angle, left split rudder trailing edge left and right rudder trailing edge right, $\delta_{SB} = (\delta_{r_L} + \delta_{r_R})/2$, positive deflection; degrees.
δ_{e_L}		left elevon surface deflection angle, positive deflection trailing edge down; degrees
δ_{e_R}		right elevon surface deflection angle, positive deflection trailing edge down, degrees.
δ_e	ELEVON	surface deflection angle, positive deflection trailing edge down, degrees $(\delta_{e_L} + \delta_{e_R})/2$.

NOMENCLATURE (Concluded)

ADDITIONS TO STANDARD LIST

SYMBOL	PLOT SYMBOL	DEFINITION
δ_a	AILRON	aileron deflection angle, positive deflection trailing edge down; degrees $(\delta_{e_L} - \delta_{e_R})/2$.
Δ	DA	incremental aileron deflection angle, algebraic difference of two runs; degrees.
$\Delta\delta_e$	DE	incremental elevon deflection angle, algebraic difference of two runs; degrees.
$\Delta\delta_{BF}$	DBF	incremental body flap deflection angle, algebraic difference of two runs; degrees.

INTRODUCTION

This document presents the results of tests conducted on 0.010- and 0.015-scale models of the Space Shuttle Vehicle (SSV) orbiter representing Configurations 3 and 3A, respectively. Elevon and body flap effectiveness were determined for both models; aileron, speed brake and rudder effectiveness as well as the contributions due to model components were also evaluated for the smaller model.

The tests were performed in the Ames Research Center (ARC) 3.5-Foot Hypersonic Wind Tunnel (HWT) at M = 5.3, 7.3 and 10.3 as Ames test number 3.5-168. The smaller model (Model 32-0) was tested at angles of attack up to 50 degrees whereas the larger model (Model 49-0) was limited to 40 degrees due to tunnel blockage considerations. Most data were acquired at β = 0 degrees, with a few runs being made at β = 5 degrees.

Six-component force balance data, fuselage base pressure and shadowgraph data were recorded for both models. Temperatures were measured on the small model in the fuselage nose and on the underside of the balance block in the vicinity of the wing-attachment bolts.

Twenty-five runs were made on the large model and thirty-seven runs on the small model during the period July 19 to 31, 1973.

CONFIGURATIONS INVESTIGATED

The test articles were 0.010- and 0.015-scale force models of the Space Shuttle Vehicle (SSV) orbiter Configurations 3 and 3A, respectively. The models were built by Rockwell International and identified as 32-0 (0.010-scale) and 49-0 (0.015-scale). The 0.015-scale model was constructed of Armco 17-4 stainless steel with the following removable components: wing, vertical tail, canopy orbital maneuvering subsystem-reaction control subsystem (OMS-RCS) pods, and body flap. The fuselage of the 0.010-scale model was constructed of 7075 T-6 aluminum and the wing was constructed of stainless steel. The 0.010-scale model had the same removable components as the 0.015-scale model. The wing was capable of elevon deflections of 0, ±5 degrees, 10 degrees, -15 degrees, -20 degrees, -25 degrees, -30 degrees, -35 degrees, and -40 degrees. The body flap could be set at deflections of 0 degree, +13.75 degrees, and -14.25 degrees. Rudder and speedbrake deflections are shown below:

Speedbrake Settings	Available Rudder Deflections
δ_{SB} = 54.92°	δ_r = 0°, -10°, -20°
δ_{SB} = 84.92°	δ_r = 0°, -10°

The following nomenclature has been used to designate model components:

Component	Definition
B_{19}	Basic fuselage of the SSV orbiter Configuration 3(VL70-000139B)
B_{22}	Basic fuselage of the Rockwell International SSV orbiter Configuration 3A (VL70-000147B)
C_7	Basic Configuration 3A canopy built to drawing lines VL70-000139B
E_{23}	Elevons on the basic W_{107} wing (VL70-000139B)
F_5	Basic Configuration 3A body flap (VL70-000139B)
M_4	Basic Configuration 3A OMS-RCS pods (VL70-000145) including N_8 OMS engine nozzles
N_8	Basic OMS nozzle of Configuration 2A (VL70-008306 and VL70-000089B)
O_{139B}	$B_{19}\ C_7\ E_{23}\ F_5\ M_4\ N_8\ R_5\ V_7\ W_{107}$
O_{147B}	$B_{22}\ C_7\ E_{23}\ F_5\ M_4\ N_8\ R_5\ V_7\ W_{111}$
R_5	Basic Configuration 3A rudder (VL70-000139B)
V_7	Basic Configuration 3A vertical tail (VL70-000139B)
W_{107}	Basic Configuration 3 wing (VL70-000139B)
W_{111}	Basic configuration 3A wing (VL70-000147B)

The Configuration 3 and 3A baseline is shown in Figure 2a and model nomenclature is illustrated in Figure 2b. Two sets of dimensional data sheets follow: the first is for the 0.010-scale model and the second is for the 0.015-scale model.

TEST FACILITY DESCRIPTION

The NASA-Ames 3.5-Foot Hypersonic Wind Tunnel is a closed-circuit, blowdown-type tunnel capable of operating at nominal Mach numbers of 5, 7, and 10 at pressures to 1800 psia and temperatures to 3400°R for run times to four minutes. The major components of the facility include a gas storage system where the test gas is stored at 3000 psi, a storage heater filled with aluminum-oxide pebbles capable of heating the test gas to 3400°R, axisymmetric contoured nozzles with exit diameters of 42 inches for generating the desired Mach number, and a 900,000 ft^3 vacuum storage system which operates to pressures of 0.3 psia. The test section itself is an open-jet type enclosed within a chamber approximately 12-feet in diameter and 40-feet in length, arranged transversally to the flow direction.

A model support system is provided that can pitch models through an angle-of-attack range of -20 to +18 degrees, in a vertical plane, about a fixed point of rotation on the tunnel centerline. This rotation point is adjustable from 1 to 5 feet from the nozzle exit plane. The model normally is out of the test stream (strut centerline 37-inches from tunnel centerline) until the tunnel test conditions are established after which it is inserted. Insertion time is adjustable to as little as 1/2 second and models may be inserted at any strut angle.

A high-speed, analog-to-digital data acquisition system is used to record test data on magnetic tape. The present system is equipped to measure and record the outputs from 80 transducers in addition to 20 channels of tunnel parameters.

TEST PROCEDURE

The models were sting mounted from the smaller of the two available model support struts in the ARC 3.5-Foot Hypersonic Wind Tunnel. The same Task Corporation MK IID internal strain gauge balance used in tests OA11B and OA58 was supplied by ARC to measure the six-component loads acting on the 0.015-scale model. A Task Corporation MK XIVA balance was supplied by ARC for use with the 0.010-scale model. Thermally insulating glass/silicon sleeves were used with both balances.

Rockwell sting W-1101-S, mounted 3.5 inches below tunnel centerline, was used for both models. This sting is provided with interchangeable bent adaptors just behind the balance socket which enable high angles of attack and sideslip angles of 0° and 5° to be achieved. Adaptors with 20°, 30° and 40° bend angles were used in this test.

Five one-sixteenth-inch ID stainless steel tubes were routed externally along the sting to sense pressures at the base of the models at points shown in Figure 2c. The pressures were measured by individual 0-to5 psia cells located in the model support strut.

Runs were normally made by pitching the model from the maximum positive angle of attack to the lowest angle in order to minimize tunnel blockage at the higher vacuum sphere pressures near the end of a run. Run 7 was made by pitching in the reverse direction and run 22 was made by pitching up and then pitching down to determine if there was any aerodynamic hysteresis.

DATA REDUCTION

Standard ARC methods were used to compute coefficient data. Aerodynamic coefficients are presented in body axes and stability axes systems. Axial-force and drag coefficients and the ratio of lift to drag are presented with and without adjustments of the fuselage base pressure to free stream static pressure.

Base pressure coefficients were computed by:

$$C_{P_{b_i}} = \frac{P_{b_i} - P_o}{q}$$

where i = 1 through 5.

Base axial-force coefficients were computed by:

$$C_{A_b} = -\frac{1}{5} \frac{(A_B + A_{B_M} + A_{SC})}{S} \sum_{i=1}^{5} C_{P_{b_i}}$$

Note: Except for the following conditions:

RB6001, M=5, CPB1 & CPB2
RB6002, M=5, CPB2
RB6030, M=5, CPB2
RB6031, M=5, CPB2

where A_B = fuselage base area, ft^2

A_{B_M} = total base area of two OMS pods, ft^2

A_{SC} = sting cavity base area, ft^2

S = wing reference area, ft^2

Forebody axial-force coefficients were computed by:

$$C_{A_f} = C_{A_u} - C_{A_b}$$

where C_{A_u} = unadjusted axial-force coefficient

DATA REDUCTION (Continued)

Center-of-pressure location was computed in percent of body length by:

$$X_{CP}/\ell_B = \left[X_{CG} - \frac{C_m \bar{c}}{C_N}\right] \Big/ \ell_B$$

where X_{CG} = center-of-gravity location aft of model nose, inches

ℓ_B = reference body length, inches

Lift-to-drag ratios based on C_{A_u} and C_{A_f} were computed by:

Using C_A, $L/D = (C_L/C_D)$

Using C_{A_f}, $L/D_f = (C_L/C_D)_f$

Reference Dimensions and Constants

Symbol	Definition	Value 0.015-Scale	Value 0.010-Scale
A_B	Net fuselage base area normal to balance axis:		
	M_4 on, F_5 on	0.045 ft^2	0.020 ft^2
	M_4 on, F_5 off	0.048 ft^2	0.021 ft^2
	M_4 off, F_5 on	0.047 ft^2	0.021 ft^2
	M_4 off, F_5 off	0.050 ft^2	0.022 ft^2
A_{B_M}	Base area of two OMS pods	0.019 ft^2	0.008 ft^2
A_{SC}	Sting cavity base area	0.034 ft^2	0.015 ft^2
b	Span, wing	14.050 in	9.367 in
X_{CG}	*Ref C.G.	12.577 in	8.385 in
Z_{CG}	Ref C.G.	FRL(Z=6.00in)	FRL (Z=4.00in)
C bal X	Center, balance	16.63 in	10.670 in

*Longitudinal distance, orbiter nose to moment reference center

DATA REDUCTION (Concluded)

$\bar{c}$	MAC, wing	7.122 in	4.745 in
ℓ_B	Ref body length	19.35 in	12.903 in
S	Ref wing area	0.605 ft^2	0.269 ft^2

TABLE I.
a. 0139B Model

TEST : 0A23 (3.5-168)			DATE : July, 1973
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
5.3	1.35×10^6	2.57	740
7.3	2.50×10^6	3.68	740
10.3	1.74×10^6	2.29	1540
10.3 *	1.0×10^6	1.27	1540

BALANCE UTILIZED: Task MK XIVA 1.0-inch Dia.

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	800 lb.	1/2%	
SF	400 lb.	1/2%	
AF	100 lb.	1/2%	
PM	1600 in.-lb.	1/2%	
RM	250 in.-lb.	1/2%	
YM	660 in.-lb.	1/2%	

COMMENTS: This balance was used with the 0.010-scale 0_{139B} model.

* Run 64 only.

TABLE I. - Concluded.
b. 0147B Model

TEST : 0A23 (3.5-168) DATE : July, 1973

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
5.3	1.35×10^6	2.57	740
7.3	2.50×10^6	3.68	740
10.3	1.74×10^6	2.29	1540

BALANCE UTILIZED: Task MK IID 1.5-in. Dia.

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	1000 lb.	1/2%	
SF	500 lb.	1/2%	
AF	300 lb.	1/2%	
PM	3000 in.-lb.	1/2%	
RM	800 in.-lb.	1/2%	
YM	1250 in.-lb.	1/2%	

COMMENTS: This balance was used with the 0.015-scale 0_{147B} model.

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABLE II.

TEST: CM23 (A1 1.25-16.5)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7-24-13

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_R	δ_{BF}	δ_{SB}	δ_R	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 5.2	7.2	10.2	TEST RUN NUMBERS
RB6[illegible]01	147B MCI 32-0	A	0	0	-14.25	55	0		10	22	2	
C02			5	0					9	26	8	
C03/3A			0	-40					13	11	6/7	
C04				-30						34		
C05				10					14	18	3	
C06				-10	0					32		
C07				0	0				11	21	1	
C08				0	13.75				12	[illegible]	5	
C09/1A				10	13.75				13	[illegible]	4	
RB6C 10	131E MCI 32-0	B	0	0	0	55	0		[illegible]	[illegible]		
C11				0	13.75				[illegible]	[illegible]		
C12				0	-14.25				24	41		
C13				10	-14.25					8		
RB6[illegible]14	139B MCI 32-0	B	0	10	13.75	55	0		51	21		
C15				-40	13.75					33		
C16				-40	0					34		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CM CY | CA CYN | CLM CBL | CL L/D | CD | CPI | CP2 | CP3 | CP4 | CP5 | MACH | ALPHA

α OR β SCHEDULES

H: 2° to 40°

B: 12 to 51°

COEFFICENTS

IDVAR (1) IDVAR (2) NDV

$O_{147B} = B_{22} C_7 E_{23} F_5 N_4 N_8 R_5 V_7 W_{111}$ (C.C15 SCALE)

$O_{139B} = B_{19} C_7 E_{23} F_5 N_4 N_9 R_5 V_7 W_{107}$ (0.C10 SCALE)

TABLE II. (Continued)

TEST : [illegible]

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : [illegible]

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_{LE_R}	δ_{BF}	δ_{SE}	δ_R	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 5.3	7.3	10.3	TEST RUN NUMBERS
RBL01/1	131B MOD 30-0	B	0	-40	-14.25	55	0		03	35/36		
19				-30						-1		
20				-20					04	38		
21				-10						-7		
22				4/10						-1		
23				-3/5						-11		
24				-3/4						42		
25			5	0					51	-43		
26		A	0				-10			4-1		
27						25	0			-12		
28						85	-10			-17		
29	$B_{19}C_7E_5V_7W_5N_4$	B		—		55	0			46		
30	$B_{19}C_7E_5$			—		—	—			47		
31	$B_{19}C_7$			—	—	—	—			48		
32	131B MOD 30-0	B	5	0	-14.25	55	0				58	
33		B	0	0	-14.25	25	0				1	
34					0						59	
35					13.75						61	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CN CR CLM CL CD CP CPZ CPA MACH NDVA

α OR β SCHEDULES

A: 2° 10° 20°

B: 12° 31°

COEFFICENTS

IDVAR (1) IDVAR (2) NDV

CM1E $B_{19}C_7E_5V_7W_{11}$ [illegible]

CM2E $B_{19}C_7E_5V_7M_4N_4$ [illegible]

TABLE II. (Concluded)

TEST: OA23 (ARC [illegible]-168)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7-24-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_{CR}	δ_{BF}	δ_{SB}	δ_R	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 5.2	7.2	10.2							
RB6036	139B MOD 32-0	B	0	10/10	13.75	55	0				62							
37	↓	↓	↓	-40/-40	14.25	↓	↓				63							
38	↓	↓	↓	-40/-40	14.25	↓	↓				64							

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CM	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5	MACH	ALPHA	
CY	CYN	CBL								IDVAR (1)	IDVAR (2)	NDV

COEFFICENTS

α OR β SCHEDULES

A: [illegible]

B: 12 to 51

$C_{147B} = B_{[illegible]} C_7 E_{23} F_5 M_4 N_8 R_5 V_7 W_{111}$ ([illegible])

$C_{139B} = B_{19} C_7 E_{23} F_5 M_4 N_8 R_5 V_7 W_{111}$ ([illegible])

Dimensional Data for the 0.010-Scale Model

Model Component: Body (B_{19})

General Description: Configuration 3A lightweight orbiter fuselage

Model scale = 0.010 Model Drawing No. SS-A00062

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Length - in.	1290.3	12.903
Max width - in. (at X_o = 1528.3 in.)	267.6	2.676
Max depth - in. (at X_o = 1480.52 in.)	244.5	2.445
*Fineness ratio	4.846	4.846
Area - ft^2		
Max cross-sectional (at X_o = 1480.52 in.)	386.67	0.03867
Planform		
Wetted		
Base		

*Fineness ratio is the fuselage length divided by the equivalent diameter for the maximum cross-sectional area.

TABLE III. - Continued.

Model Component: Body (B_{22})

General Description: Fuselage, configuration 3A lightweight orbiter

Note: Identical to B17 except forebody

Model scale = 0.015

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Length - in.	1290.3	19.35450
Max width - in.	267.6	4.0140
Max depth - in.	244.5	3.66750
Fineness ratio	4.84601	4.84601
Area - ft^2		
Max cross-sectional	386.67	0.08700
Planform		
Wetted		
Base		

TABLE III. - Continued.

Model Component: Canopy (C_7)

General Description: Configuration 3A lightweight orbiter canopy

Model scale = 0.010 Model Drawing No. SS-A00062

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Length ~ in. (X_o = 433 in. to X_o = 670 in.)	237	2.370
Max width ~ in.		
Max depth ~ in.		
Fineness ratio		
Area ~ ft^2		
Max cross-sectional		
Planform		
Wetted		
Base		

TABLE III. - Continued.

MODEL COMPONENT: Canopy - C7

GENERAL DESCRIPTION: Configuration 3 per Rockwell Lines VL70-000139

Model Scale = .015

DRAWING NUMBER VL70-000139

DIMENSION:	FULL SCALE	MODEL SCALE
Length (X_o = 433 to X_o = 670) - in. FS	237	3.5550
Max Width		
Max Depth (Z_o = to Z_o = 501) - in FS		
Fineness Ratio		
Area		
Max Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. - Continued.

Model Component: Elevon (E_{23})

General Description: Configuration 3A lightweight orbiter elevons
Data for 1 of 2 sides

Model scale = 0.010 Model Drawing No. SS-A00109

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Area - ft^2	205.52	0.02055
Span (equivalent) - in.	353.34	3.5334
Inbd equivalent chord - in.	114.78	1.1478
Outbd equivalent chord - in.	55.00	0.550
Ratio movable surface chord/ total surface chord		
At inbd equiv chord	0.208	0.208
At outbd equiv chord	0.400	0.400
Sweepback angles - deg		
Leading edge	0.00	0.00
Trailing edge	-10.24	-10.24
Hinge line	0.00	0.00
Area moment (normal to hinge line) - ft^3	1548.07	0.00155

TABLE III. - Continued

Model Component: Elevon (E_{23})

General Description: Elevons for wing W_{107}
(Data for 1 of 2 sides)

Model scale = 0.015

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Area - ft^2	205.52	0.04624
Span (equivalent) - in.	353.34	5.30010
Inbd equivalent chord - in.	114.78	1.72170
Outbd equivalent chord - in.	55.00	0.8250
Ratio movable surface chord/ total surface chord		
At inbd equiv chord	0.208	0.208
At outbd equiv chord	0.400	0.400
Sweepback angles - deg		
Leading edge	0.00	0.00
Trailing edge	-10.24	-10.24
Hinge line	0.00	0.00
Area moment (normal to hinge line) - ft^3	1548.07	0.00522

TABLE III. - Continued.

Model Component: Body flap (F_5)

General Description: Configuration 3Alightweight orbiter body flap

Model scale = 0.010 Model Drawing No. SS-A00062

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Length - in.	84.70	0.8470
Max width - in.	267.6	2.6760
Max depth - in.		
Fineness ratio		
Area - ft^2		
Max cross-sectional		
Planform	142.5195	0.01425195
Wetted		
Base	38.0958	0.00380958

TABLE III. - Continued.

MODEL COMPONENT: F5 Body Flap

GENERAL DESCRIPTION: 3 Configuration per Rockwell Lines VL70-000139

Scale Model = .015

DRAWING NUMBER VL70-000139

DIMENSION:	FULL SCALE	MODEL SCALE
Length - in	84.70	1.2705
Max Width - in	267.6	4.0140
Max. Depth		
Fineness Ratio		
Area - Ft^2		
Max Cross-Sectional		
Planform	142.5	0.03207
Wetted		
Base	38.0958	0.00857

TABLE III. - Continued.

Model Component: OMS pod (M_4)

General Description: Configuration 3A lightweight orbiter orbital maneuvering subsystem pod

Model scale = 0.010 Model Drawing No. SS-A00062

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Length - in.	346.0	3.460
Max width - in.	108.0	1.080
Max depth - in.	113.0	1.130
Fineness ratio		
Area - ft^2		
Max cross-sectional		
Planform		
Wetted		
Base		

TABLE III. - Continued.

Model Component: OMS pod (M_4)

General Description: Basic configuration 3A OMS pods

Note: M_4 identical to M_3 of configuration 2A except intersection to body

Model scale = 0.015

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Length - in.	346.0	5.1900
Max width - in.	108.0	1.620
Max depth - in.	113.0	1.695
Fineness ratio		
Area - ft^2		
Max cross-sectional		
Planform		
Wetted		
Base		

TABLE III. - Continued.

MODEL COMPONENT: NOZZLES - N8

GENERAL DESCRIPTION: Basic OMS Nozzle of Configuration 2A per Rockwell Lines VL70-008306 and VL70-000089"B". Intersection of nozzle exit plane and nozzle centerline at X_o = 1570.75, Y_o = ±99.25, Z_o = 507.25

MODEL SCALE = 0.010

DRAWING NO. VL70-008306, VL70-000089"B", SS-A00092

DIMENSIONS	FULL SCALE	MODEL SCALE
Mach No.		
Length ~ in.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter ~ in.		
Exit	50.00	0.500
Throat	N/A	N/A
Inlet	28.00	0.280
Area ~ ft^2./Nozzle		
Exit	13.635	0.00136
Throat		
Gimbal Point (station) ~ in.		
X	1518.0	15.180
Y	±88.0	0.880
Z	492.0	4.920
Null Position ~ deg.		
Pitch	15°49'	15°49'
Yaw (Outb'd)	±12°17'	±12°17'

TABLE III. - Continued.

MODEL COMPONENT: NOZZLES - N_8

GENERAL DESCRIPTION: Basic OMS Nozzle of Configuration 2A per Rockwell Lines VL70-008306 and VL70-000089"B". Intersection of nozzle exit plane and nozzle centerline at X_o = 1570.75, Y_o = ±99.25, Z_o = 507.25

MODEL SCALE = 0.015

DRAWING NO. VL70-008306, VL70-000089"B", SS-A00092

DIMENSIONS	FULL SCALE	MODEL SCALE
Mach No.		
Length - in.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - in.		
Exit	50.00	0.750
Throat	N/A	N/A
Inlet	28.00	.420
Area - ft ./Nozzle		
Exit	13.635	0.00204
Throat		
Gimbal Point (station) - in.		
X	1518.0	22.77
Y	±88.0	1.32
Z	492.0 -	7.38
Null Position - deg.		
Pitch	15°49'	15°49'
Yaw (Outb'd)	±12°17'	±12°17'

TABLE III. - Continued.

Model Component: Rudder (R_5)

General Description: Configuration 3A lightweight orbiter rudder

Model scale = 0.010 Model Drawing No. SS-A00062

Drawing Number: VL70-000139B
VL70-000095

Dimensions:	Full-Scale	Model Scale
Area - ft^2	106.38	0.010638
Span (equivalent) - in.	201.0	2.010
Inbd equivalent chord - in.	91.585	0.91585
Outbd equivalent chord - in.	50.833	0.50833
Ratio movable surface chord/ total surface chord		
At inbd equiv chord	0.400	0.400
At outbd equiv chord	0.400	0.400
Sweepback angles - deg		
Leading edge	34.83	34.83
Trailing edge	26.25	26.25
Hinge line	34.83	34.83
Area moment (normal to hinge line) - ft^3	526.13	0.00053

TABLE III. - Continued.

Model Component: Rudder (R_5)

General Description: Rudder for vertical stabilizer V_7

Model scale = 0.015

Drawing Number: VL70-000095

Dimensions:	Full-Scale	Model Scale
Area - ft^2	106.38	0.024
Span (equivalent) - in.	201.0	3.015
Inbd equivalent chord - in.	91.585	1.374
Outbd equivalent chord - in.	50.833	0.762
Ratio movable surface chord/ total surface chord		
At inbd equiv chord	0.400	0.400
At outbd equiv chord	0.400	0.400
Sweepback angles - deg		
Leading edge	34.83	34.83
Trailing edge	26.25	26.25
Hinge line	34.83	34.83
Area moment (normal to hinge line) - ft^3	526.125	0.0018

TABLE III. - Continued.

MODEL COMPONENT: VERTICAL - V[illegible]

GENERAL DESCRIPTION: [illegible] vertical tail, doubleway airfoil [illegible] rounded leading edge.

[illegible]: Same as V5, but with manipulator housing removed.

Model Scale = .010

DRAWING NUMBER: VL70-000139

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) Ft^2	425.92	0.04259
Planform		
Span (Theo) In	31[illegible]	3.1572
Aspect Ratio	1.[illegible]5	1.[illegible]5
Rate of Taper	0.[illegible]7	0.[illegible]7
Taper Ratio	0.4[illegible]4	.[illegible]4
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	2[illegible].249
0.25 Element Line	41.[illegible]	4[illegible].[illegible]0
Chords:		
Root (Theo) WP	263.50	2.6850
Tip (Theo) WP	10[illegible]	1.0847
MAC	199.[illegible]	1.9981
Fus. Sta. of .25 MAC	1463.[illegible]	14.6350
W. P. of .25 MAC	635.[illegible]	6.35522
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.000	10.000
Trailing Wedge Angle Deg	14.[illegible]	14.[illegible]
Leading Edge Radius	2.0	0.020
Void Area - Ft^2	13.[illegible]	0.00132
Blanketed Area	0.00	0.00

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABLE III. - Continued.

Model Component: Vertical tail (V_7)—lightweight orbiter configuration

General Description: Basic configuration 3A centerline vertical tail, double-wedge airfoil with rounded leading edge

Model scale = 0.015

Drawing Number: VL70-000139, VL70-000095

Dimensions:	Full-Scale	Model Scale
Total Data		
Planform area (theo) - ft^2	425.92	0.09583
Span (theo) - in.	315.72	4.73580
Aspect ratio	1.675	1.675
Rate of taper	0.507	0.507
Taper ratio	0.404	0.404
Sweepback angles - deg		
Leading edge	45.000	45.000
Trailing edge	26.249	26.249
0.25 element line	41.130	41.130
Chords - in.		
Root (theo) WP	268.50	4.02750
Tip (theo) WP	108.47	1.62705
MAC	199.81	2.99715
Fus sta of 0.25 MAC	1463.50	21.9525
WP of 0.25 MAC	635.522	9.53283
BL of 0.25 MAC	0.0	0.00
Airfoil section		
Leading wedge angle - deg	10.000	10.000
Trailing wedge angle - deg	14.920	14.920
Leading edge radius - in.	2.00	0.0300
Void area - ft^2	13.17	0.00296
Blanketed area - ft^2		

TABLE III. - Continued

MODEL COMPONENT: WING-W108

GENERAL DESCRIPTION: Configuration 3 per Rockwell Lines VL70-0001394

NOTE: Same as W103, except cuff, airfoil and incidence angle.

Model Scale = .010

TEST NO. DWG. NO. VL70-0001394

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2		
Planform	2690.00	0.2690
Span (Theo In.	936.68	9.3668
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees (@ TE of Elevon)	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	+3.000	+3.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	-10.24	-10.24
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.0.0.	689.24	6.8924
Tip, (Theo) B.P.	137.85	1.3785
MAC	474.81	4.7481
Fus. Sta. of .25 MAC	1136.89	11.3689
W.P. of .25 MAC	299.20	2.9920
B.L. of .25 MAC	182.13	1.8213
EXPOSED DATA		
Area (Theo) Ft^2	1752.29	0.17523
Span, (Theo) In. BP108	720.68	7.2068
Aspect Ratio	2.058	2.058
Taper Ratio	0.2451	0.2451
Chords		
Root BP108	562.40	5.6240
Tip 1.00 $\frac{b}{2}$	137.85	1.3785
MAC	393.03	3.9303
Fus. Sta. of .25 MAC	1185.31	11.8531
W.P. of .25 MAC	300.20	3.0020
B.L. of .25 MAC	251.76	2.5176
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ =	0.10	0.10
Tip $\frac{b}{2}$ =	0.12	0.12
Data for (1) of (2) Sides		
Leading Edge Cuff Planform Area Ft^2	118.333	0.01183
Leading Edge Intersects Fus M. L. @ Sta	500	5.00
Leading Edge Intersects Wing @ Sta	1083.4	10.834

TABLE III. - Concluded.

Model Component: Wing (W_{111})—new lightweight orbiter

General Description: Basic configuration 3A wing

Note: Same as W103 except cuff, airfoil, and angle of incidence. Model scale = 0.015

Test No. _____ Drawing No. VL70-000139B

Dimensions:	Full-Scale	Model Scale
Total Data		
Planform area (theo) - ft^2	2690.0	0.60525
Span (theo) - in.	936.68	14.05020
Aspect ratio	2.265	2.265
Rate of taper	1.177	1.177
Taper ratio	0.200	0.200
Dihedral angle, - deg	3.500	3.500
Incidence angle, - deg	0.500	0.500
Aerodynamic twist, - deg	+3.000	+3.000
Sweepback angles, - deg		
Leading edge	45.000	45.000
Trailing edge	-10.24	-10.24
0.25 element line	35.209	35.209
Chords - in.		
Root (theo) at BP 0.0	689.24	10.33860
Tip (theo) at BP 468.341	137.85	2.06775
MAC	474.81	7.12215
Fus sta of 0.25 MAC	1136.89	17.05335
WP of 0.25 MAC	295.70	4.435
BL of 0.25 MAC	182.13	2.7195
Exposed Data		
Area (theo) - ft^2	1752.29	0.39426
Span (theo) - in. (BP 108.0 to 468.341)	720.68	10.81020
Aspect ratio	2.058	2.058
Taper ratio	0.2451	0.2451
Chords - in.		
Root at BP 108.0	562.19	8.4360
Tip at $1.00\frac{b}{2}$	137.85	2.06775
MAC	393.03	5.89545
Fus sta of 0.25 MAC	1185.31	17.77965
WP of 0.25 MAC	296.70	4.451
BL of 0.25 MAC	251.76	3.7764
Airfoil section (Rockwell mod NASA XXXX-64)		
Percent thickness at $\frac{b}{2}$	0.10	0.10
Percent thickness at $1.0\frac{b}{2}$	0.12	0.12
Data for 1 of 2 sides		
Leading edge cuff		
Planform area - ft^2	118.333	0.02662
Leading edge intersects fus ML at sta - in.	500	7.5000
Leading edge intersects wing at sta - in.	1083.5	16.2510

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

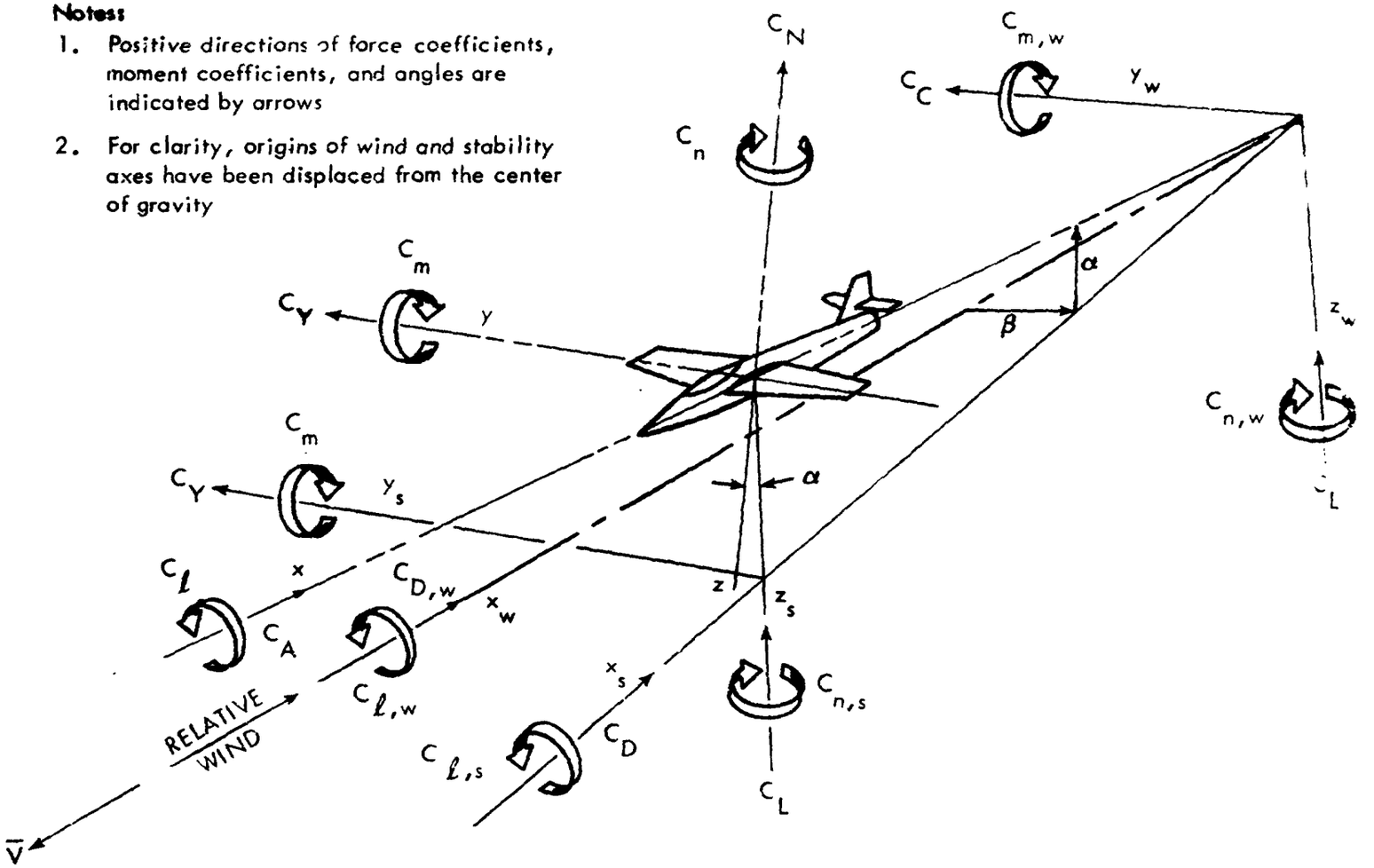
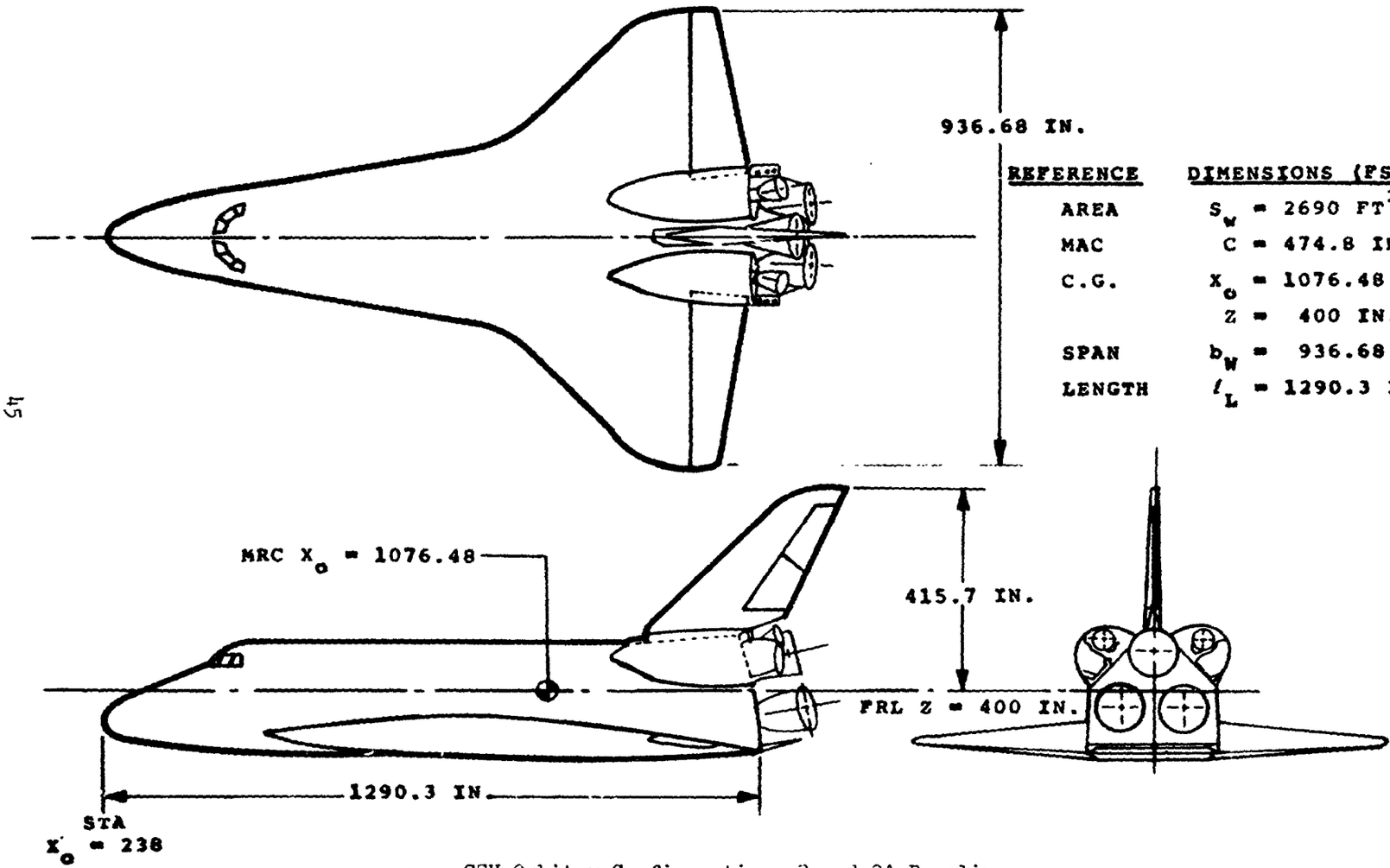
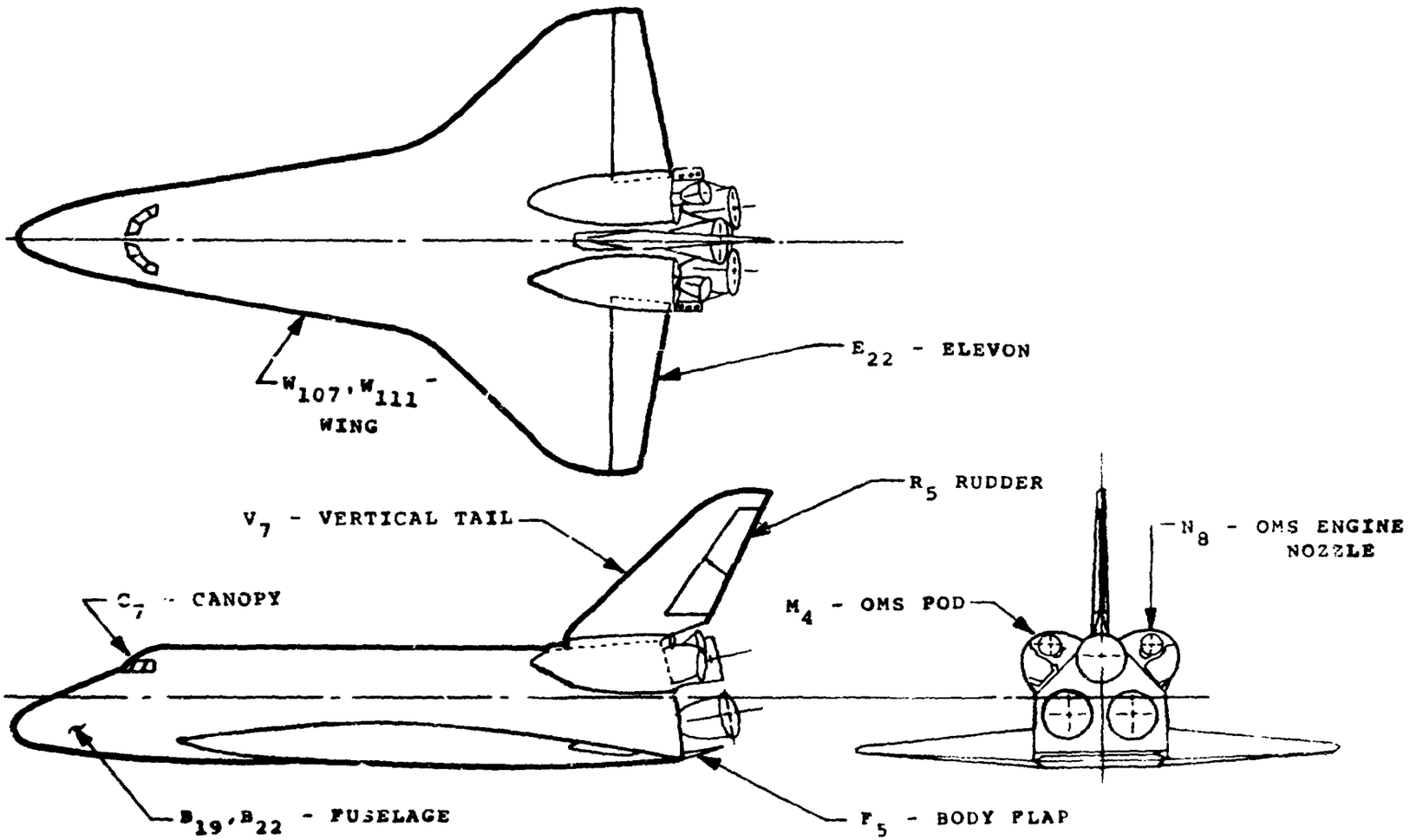


Figure 1. - Axis Systems.



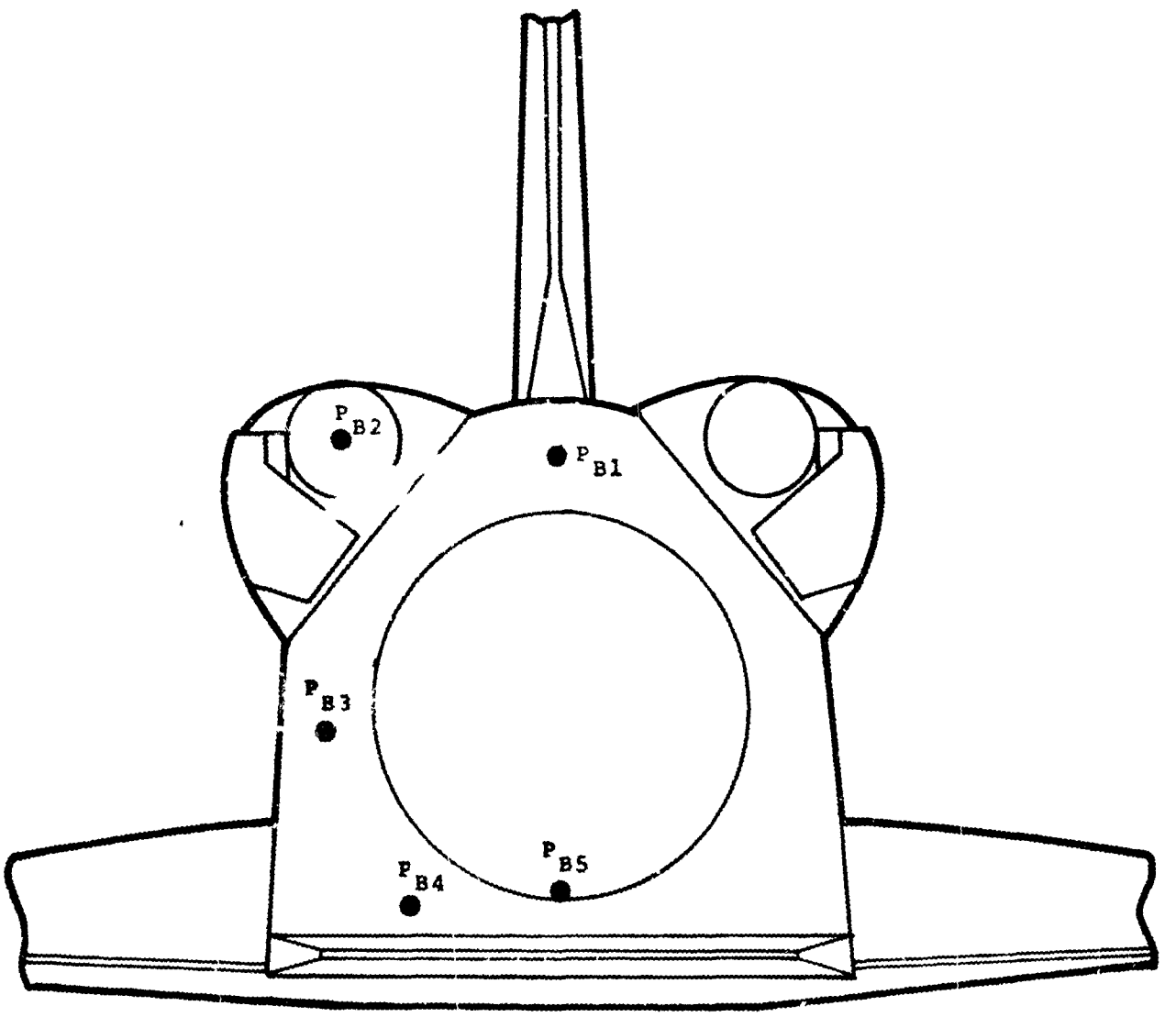
a. SSV Orbiter Configurations 3 and 3A Baseline.

Figure 2. - Model Sketches.



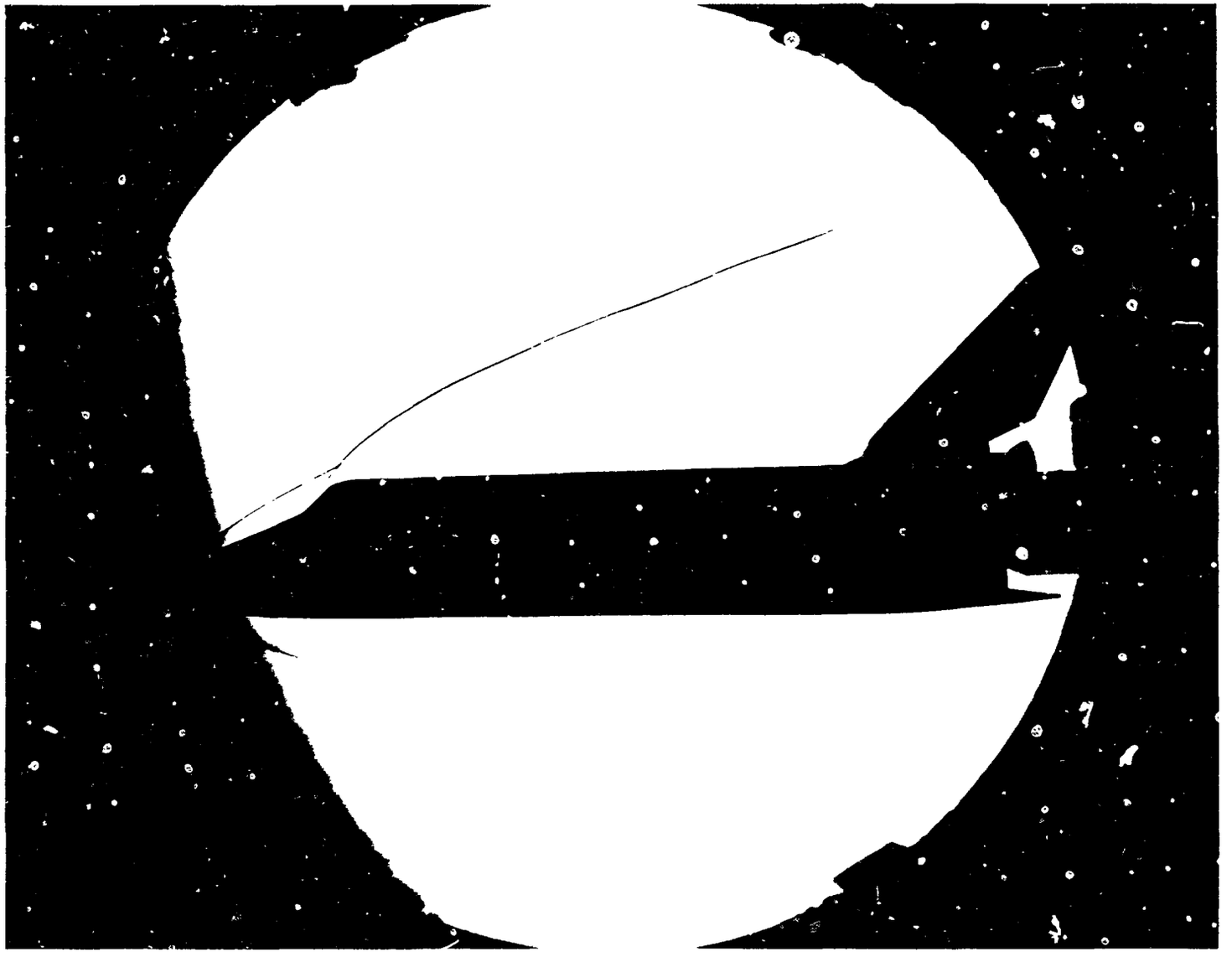
b. SSV Orbiter Configuration 3 and 3A [illegible] nomenclature.

Figure 2. - Continued.



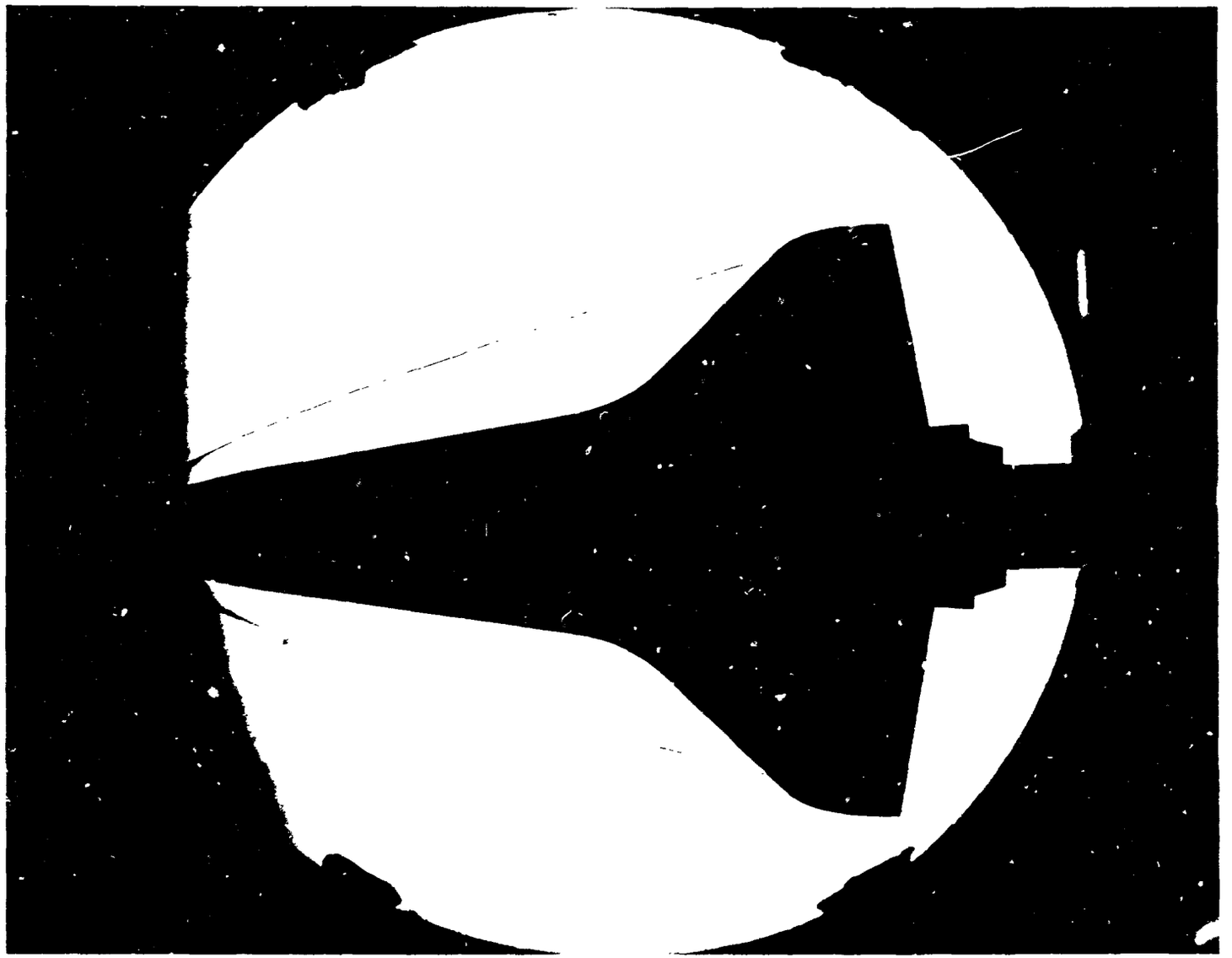
c. Base Pressure Tap Locations.

Figure 2. - Concluded.



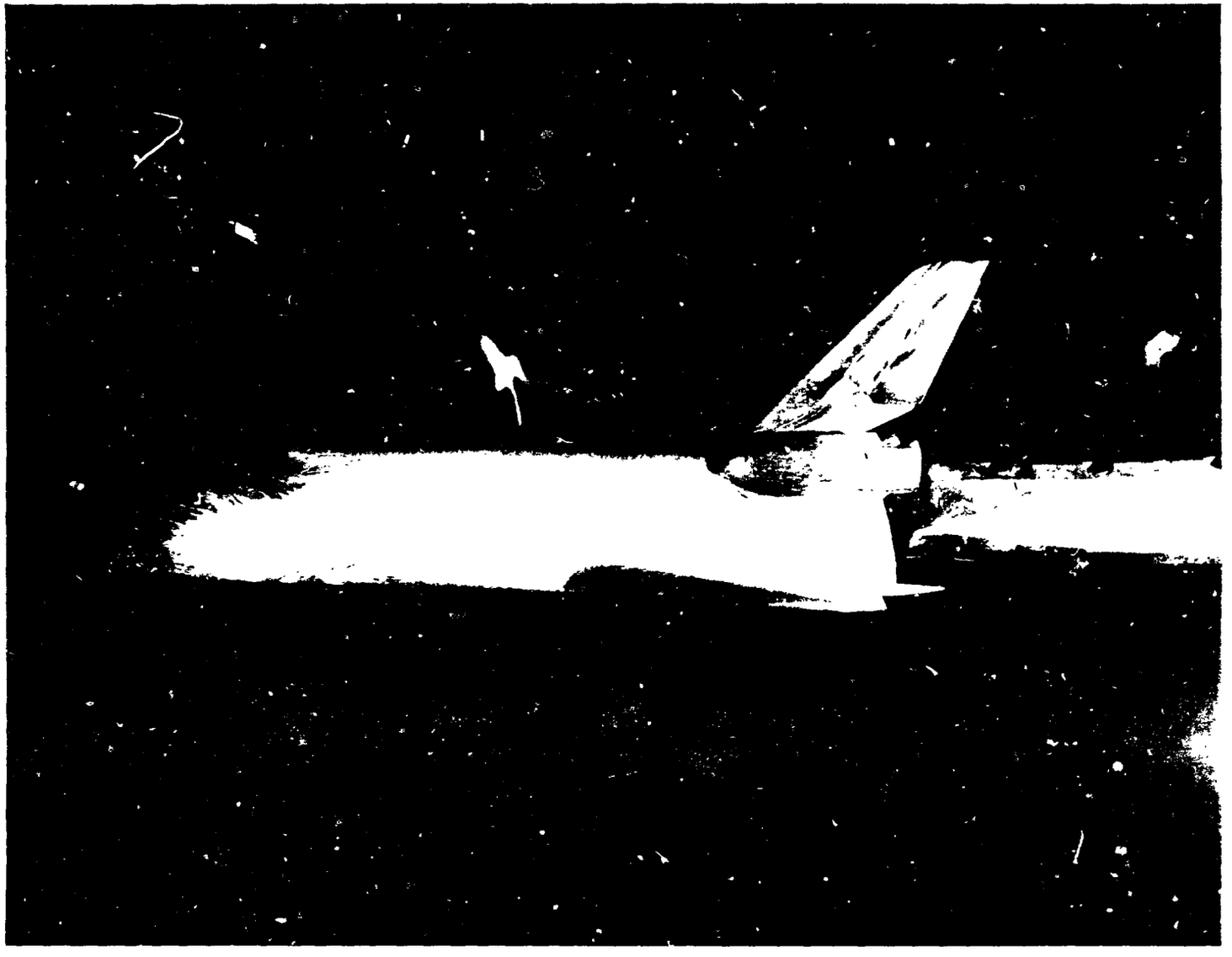
a. Side View Shadowgraph at Mach 5 and 0 Degrees Angle of Attack.

Figure 3. - Model Photographs.



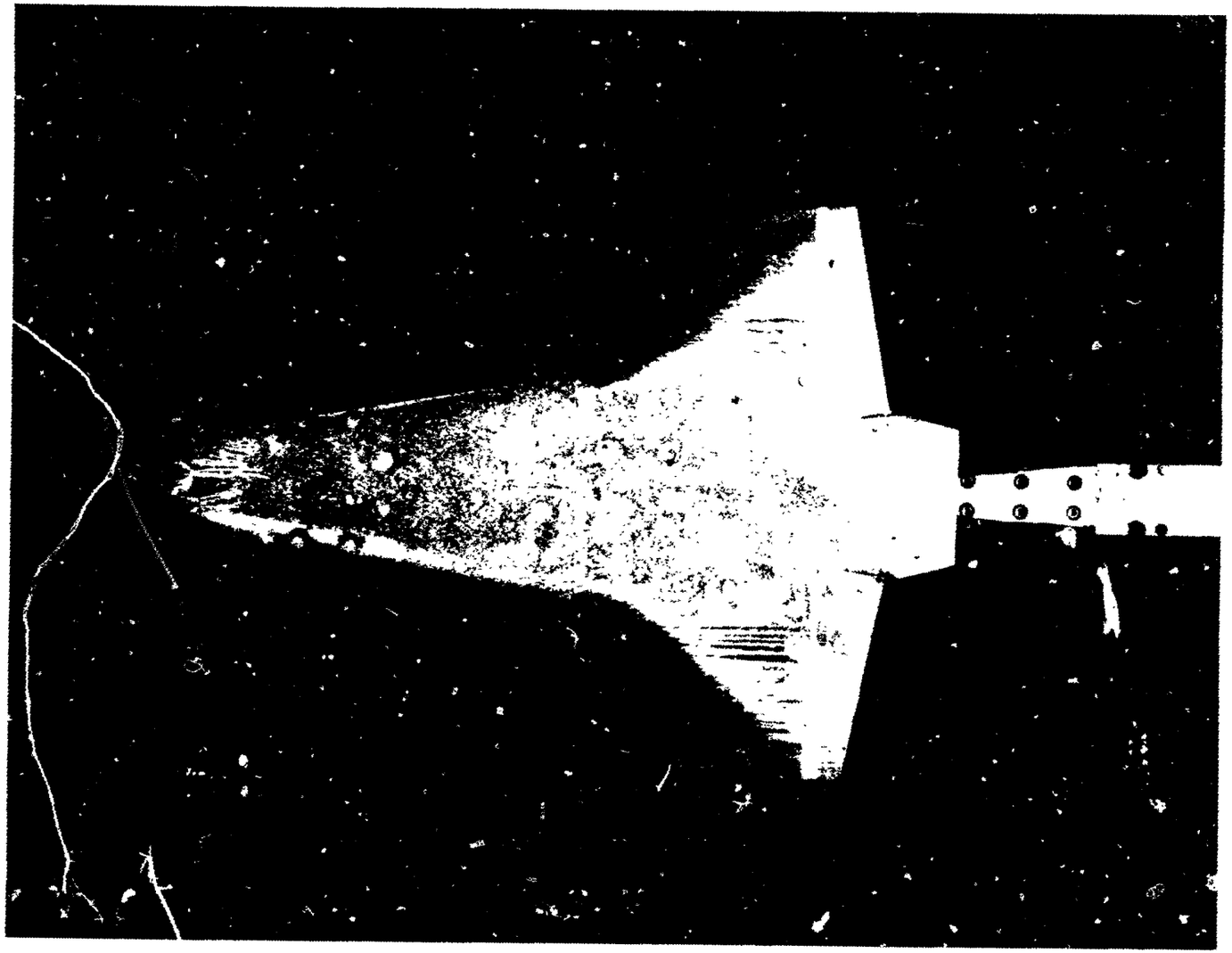
b. Plan View Shadowgraph at Mach 5 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



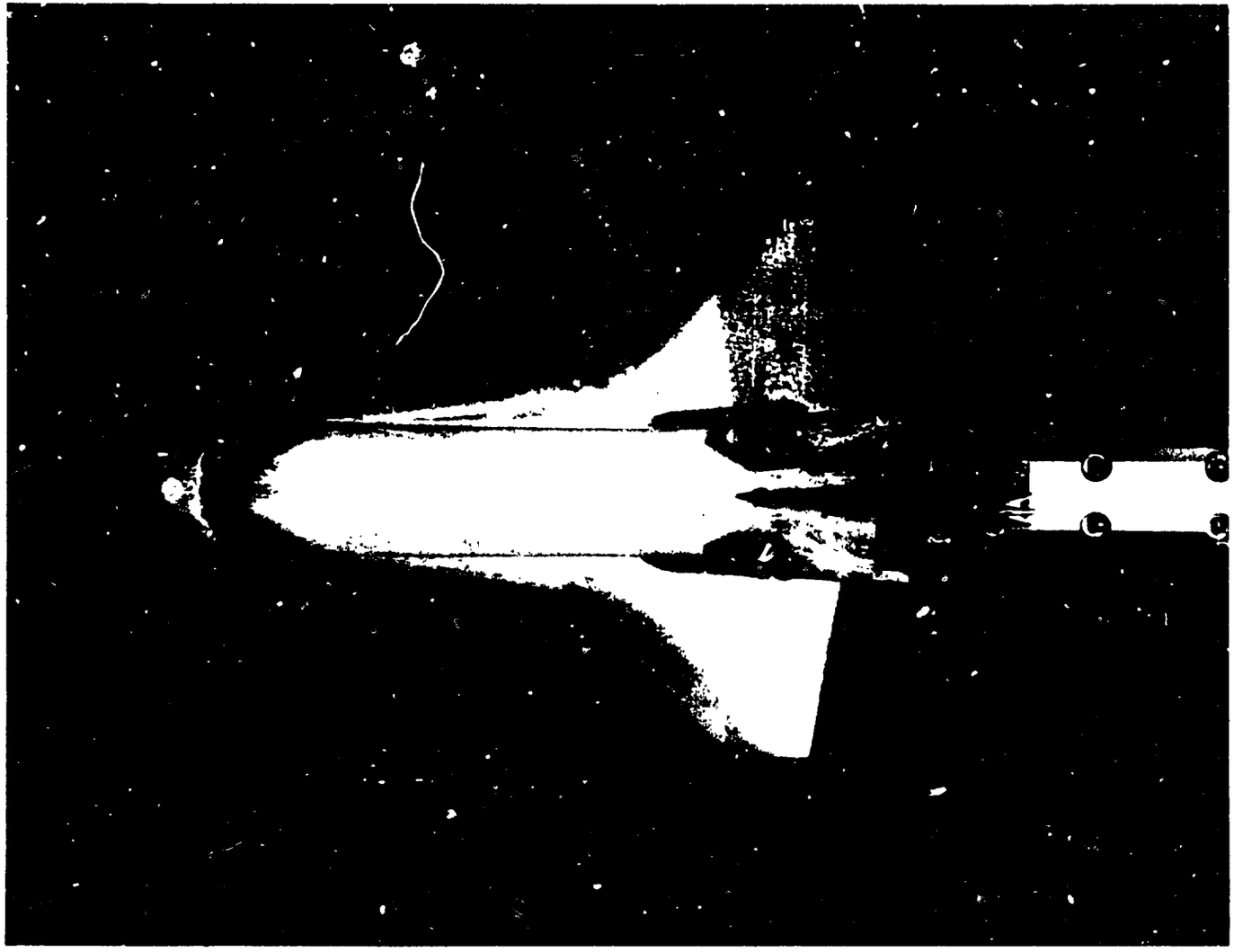
c. Side View Oilflow Photograph at Mach 5 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



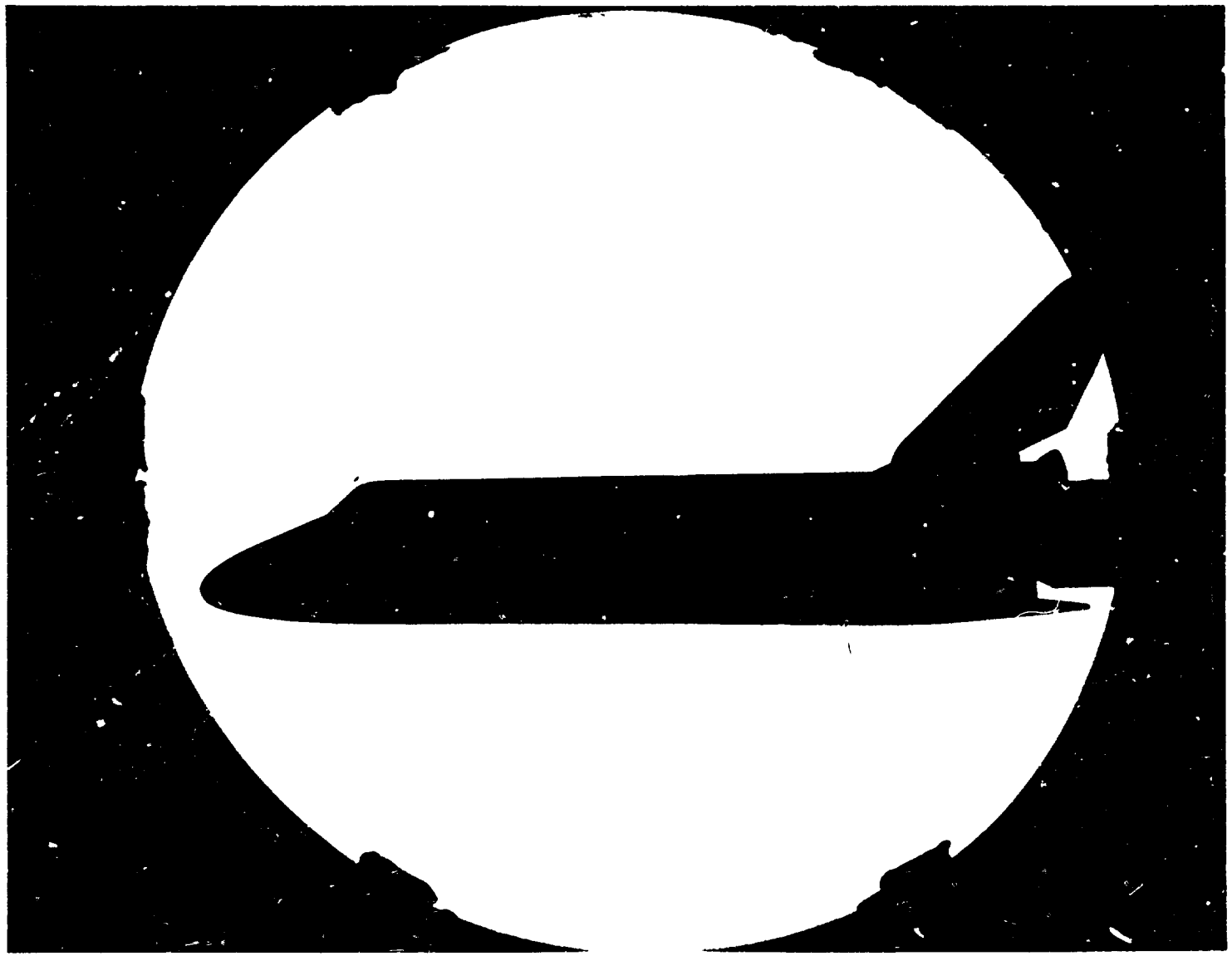
d. Bottom View Oilflow Photograph at Mach 5 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



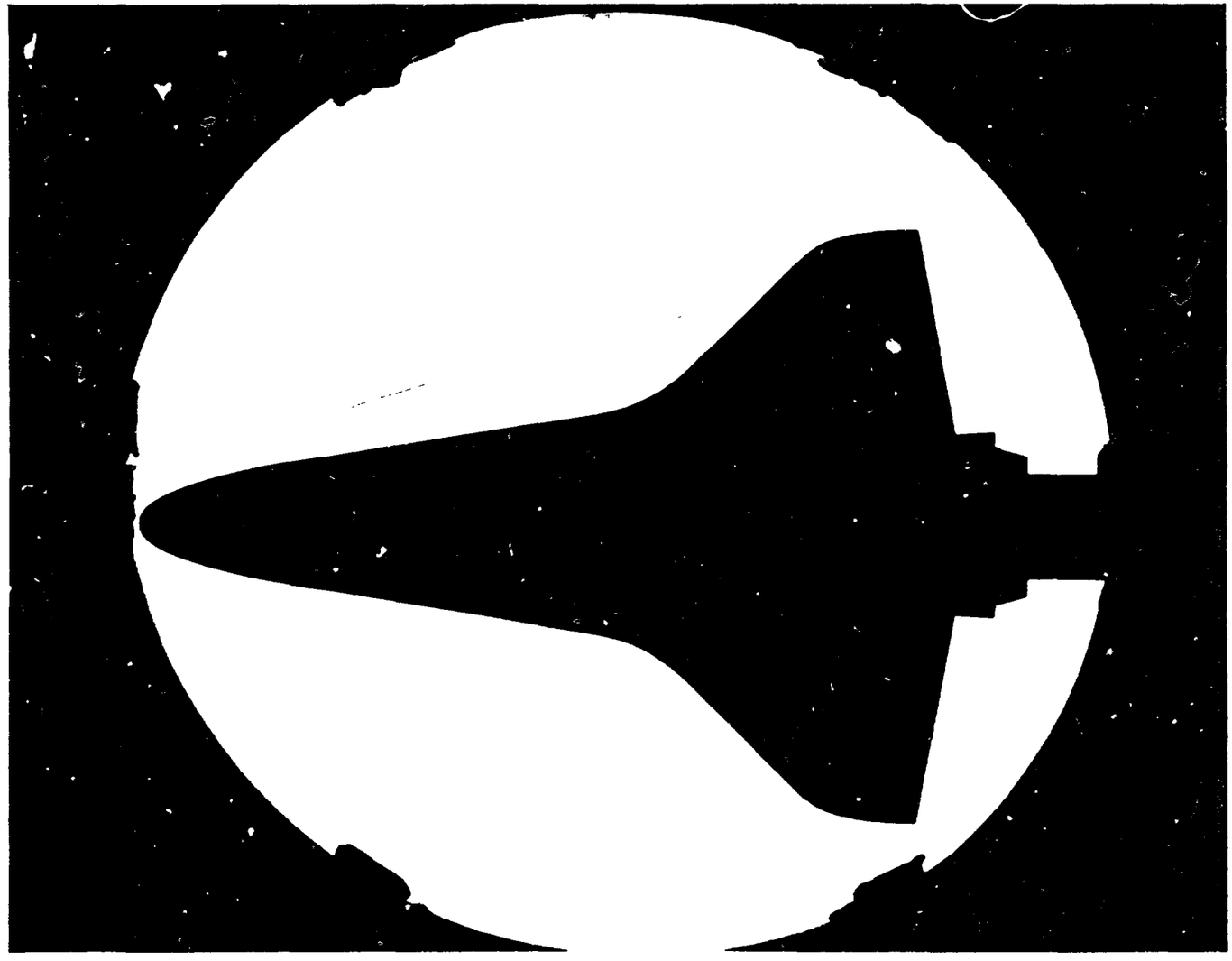
e. Top View Oilflow Photograph at Mach 5 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



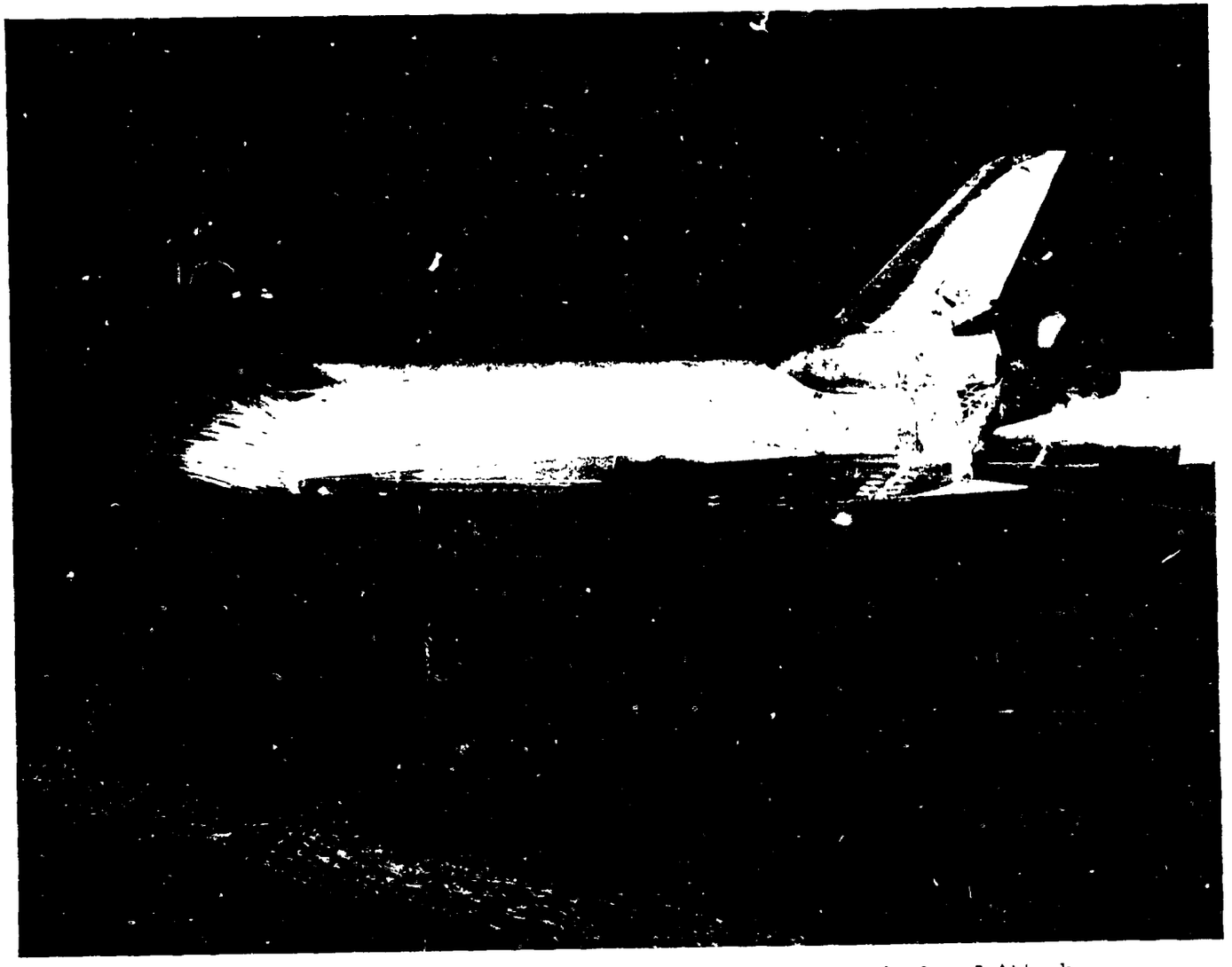
f. Side View Shadowgraph at Mach 7 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



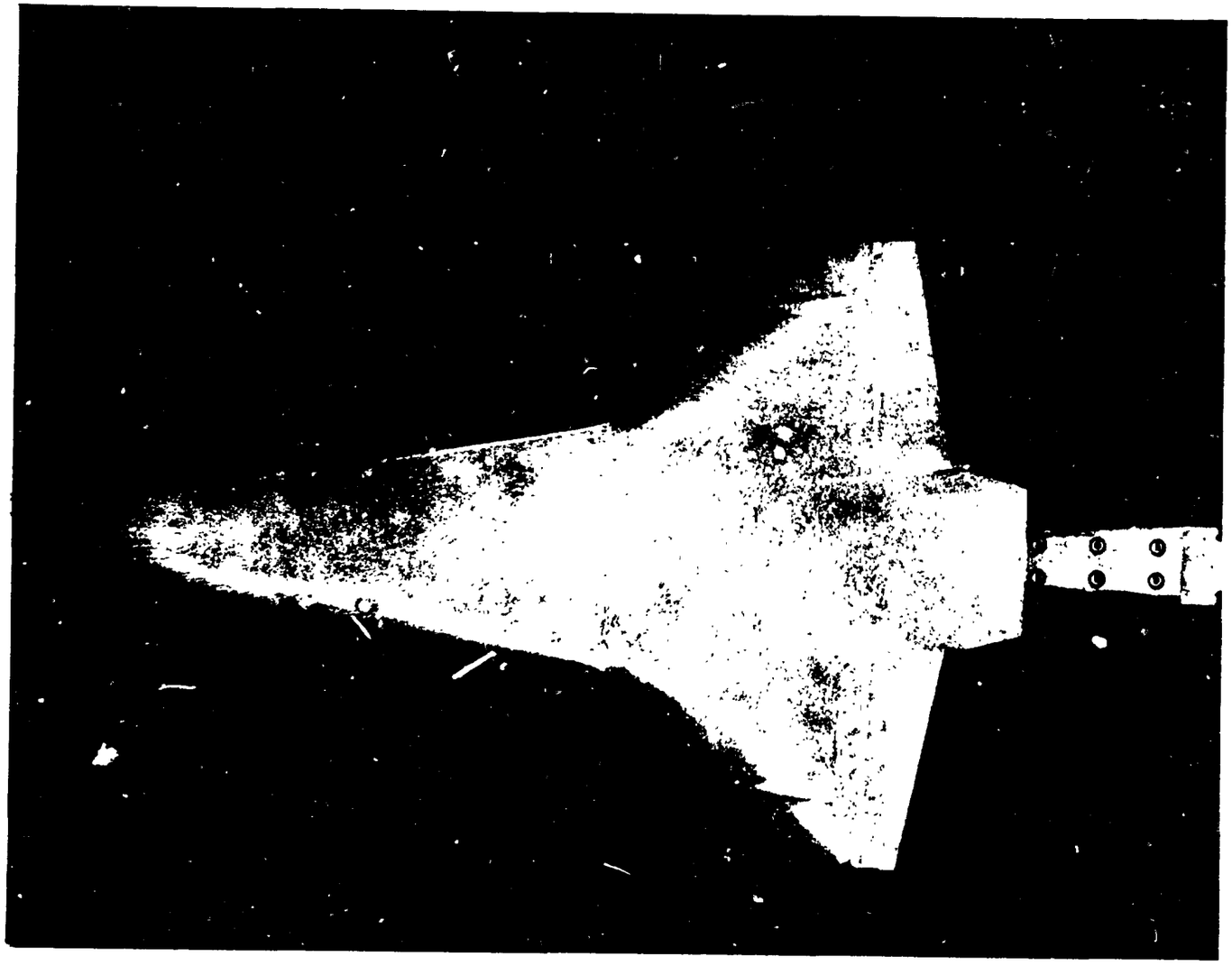
g. Plan View Shadowgraph at Mach 7 and 0 Degrees Angle of Attack.

Figure 3. - Continued.

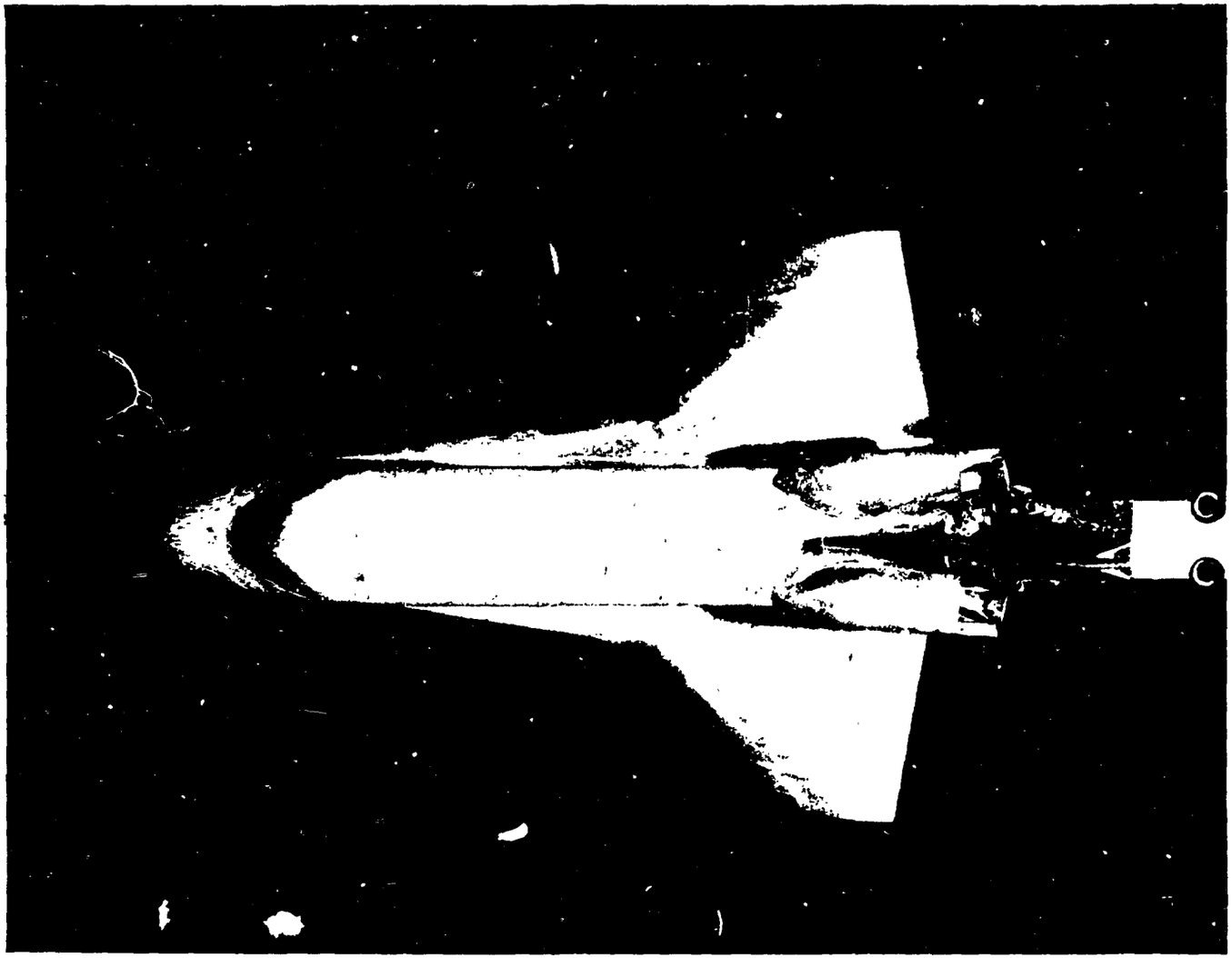


h. Side View Oilflow Photograph at Mach 7 and 0 Degrees Angle of Attack.

Figure 3. - Continued.

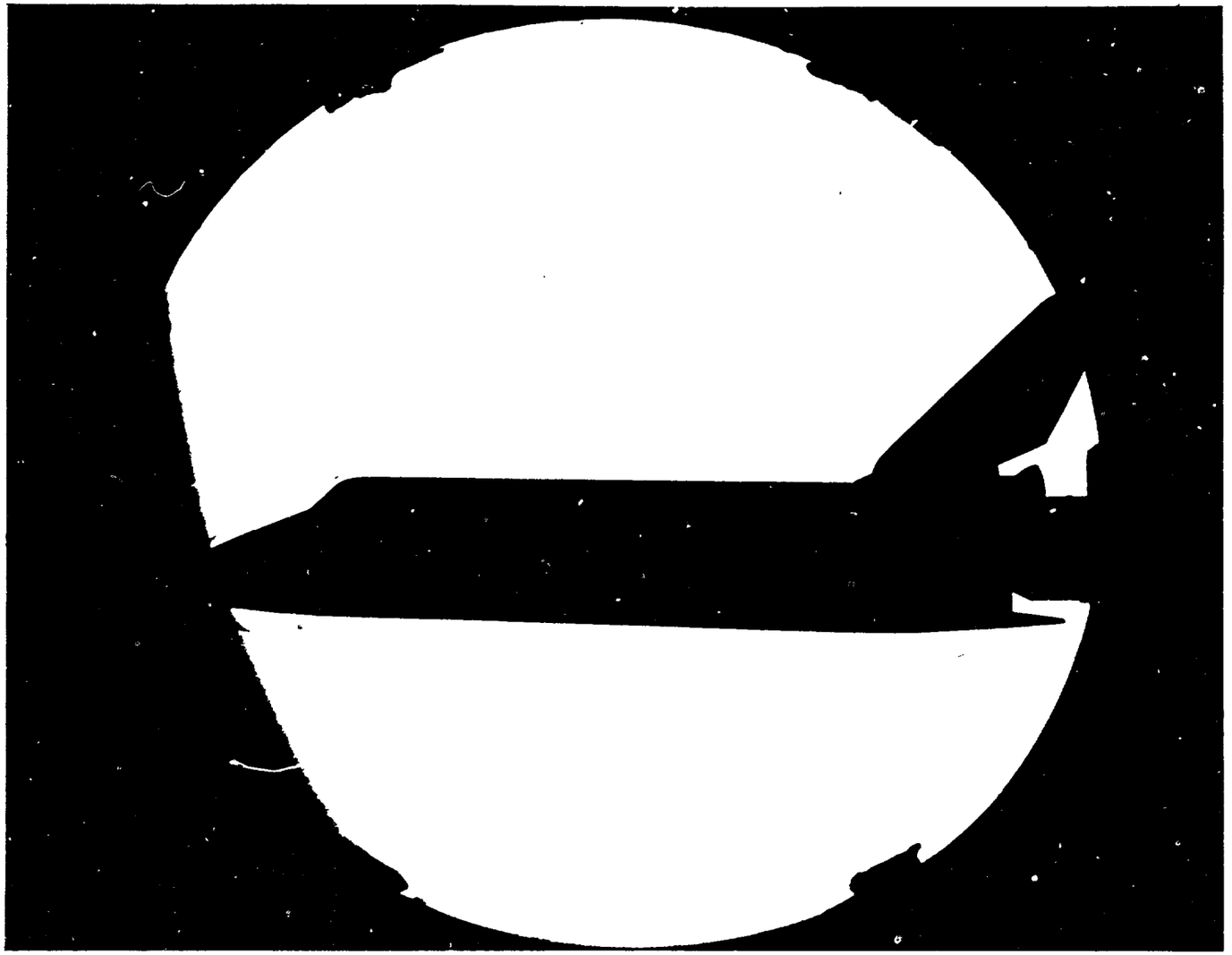


i. Bottom Side Oilflow Photograph at Mach 7 and 0 Degrees Angle of Attack.



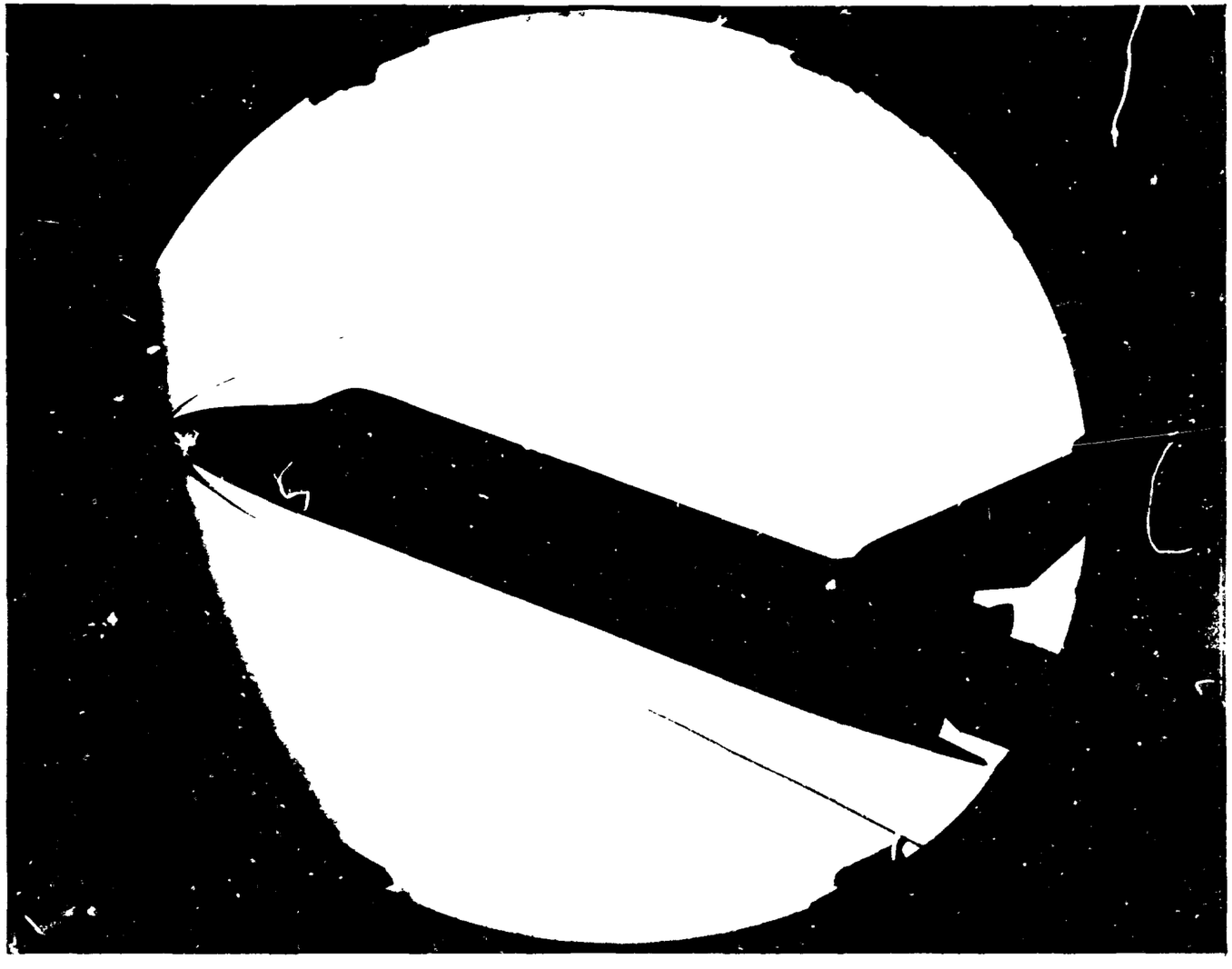
j. Top View Oilflow Photograph at Mach 7 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



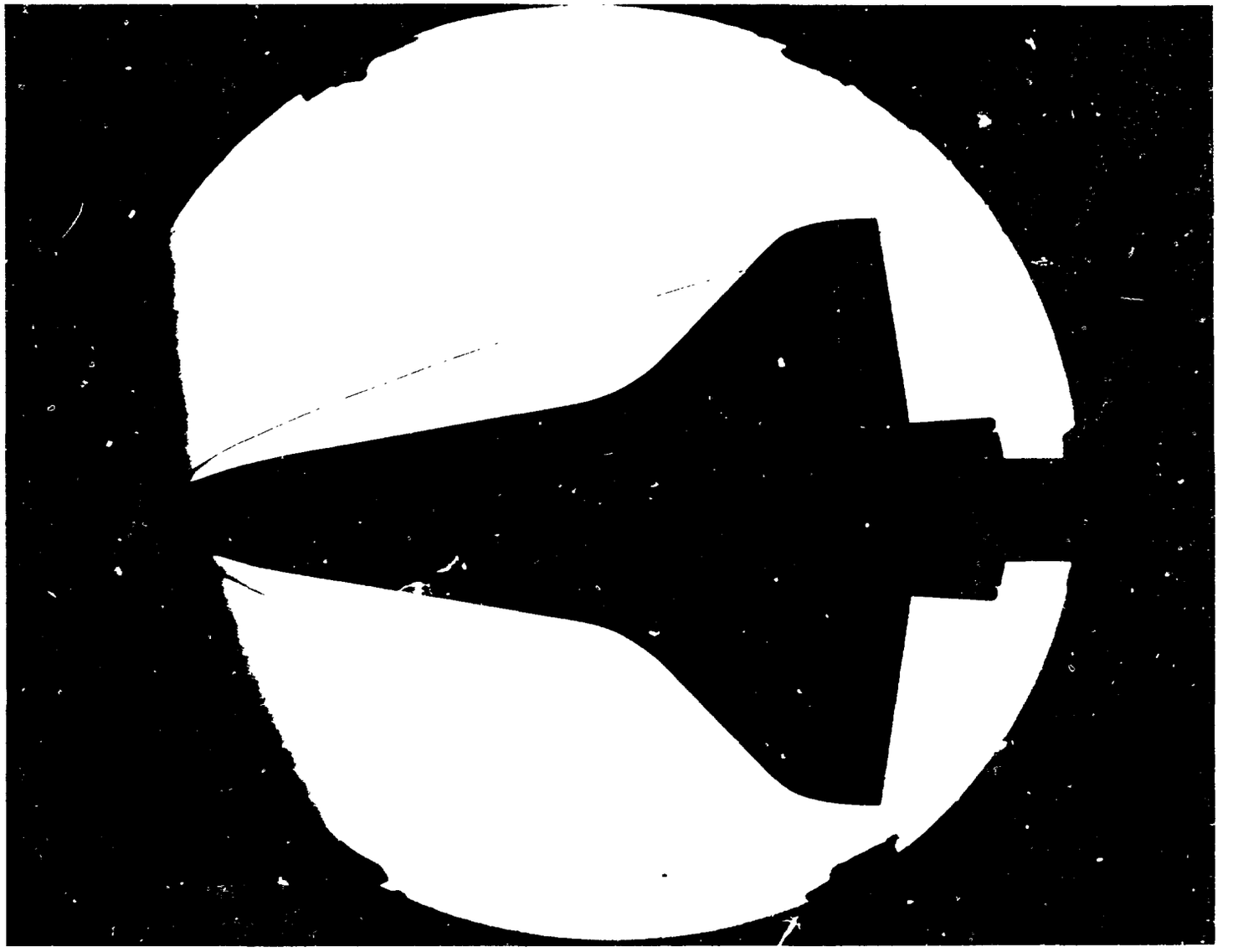
k. Side View Shadowgraph at Mach 10 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



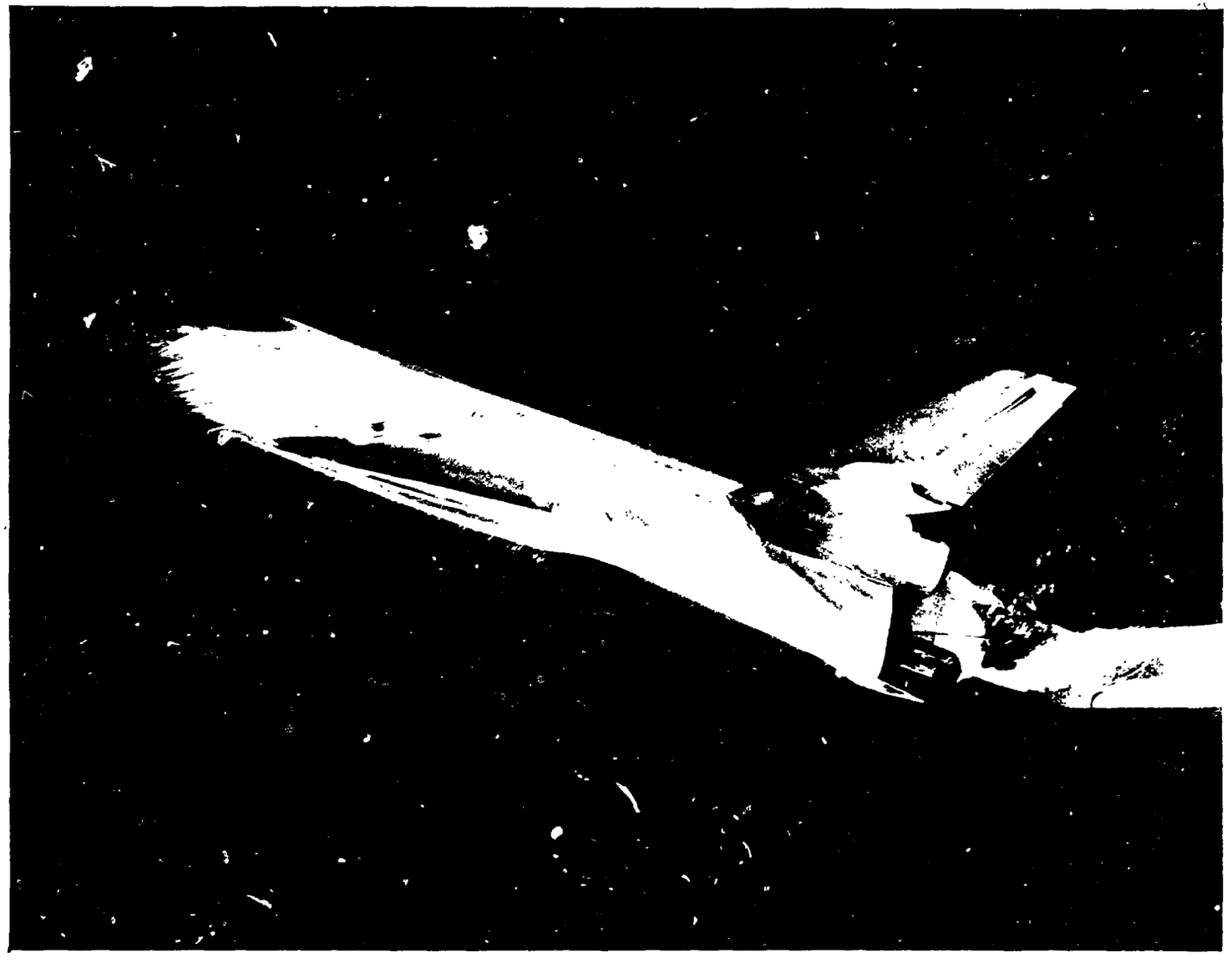
1. Side View Shadowgraph at Mach 5 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



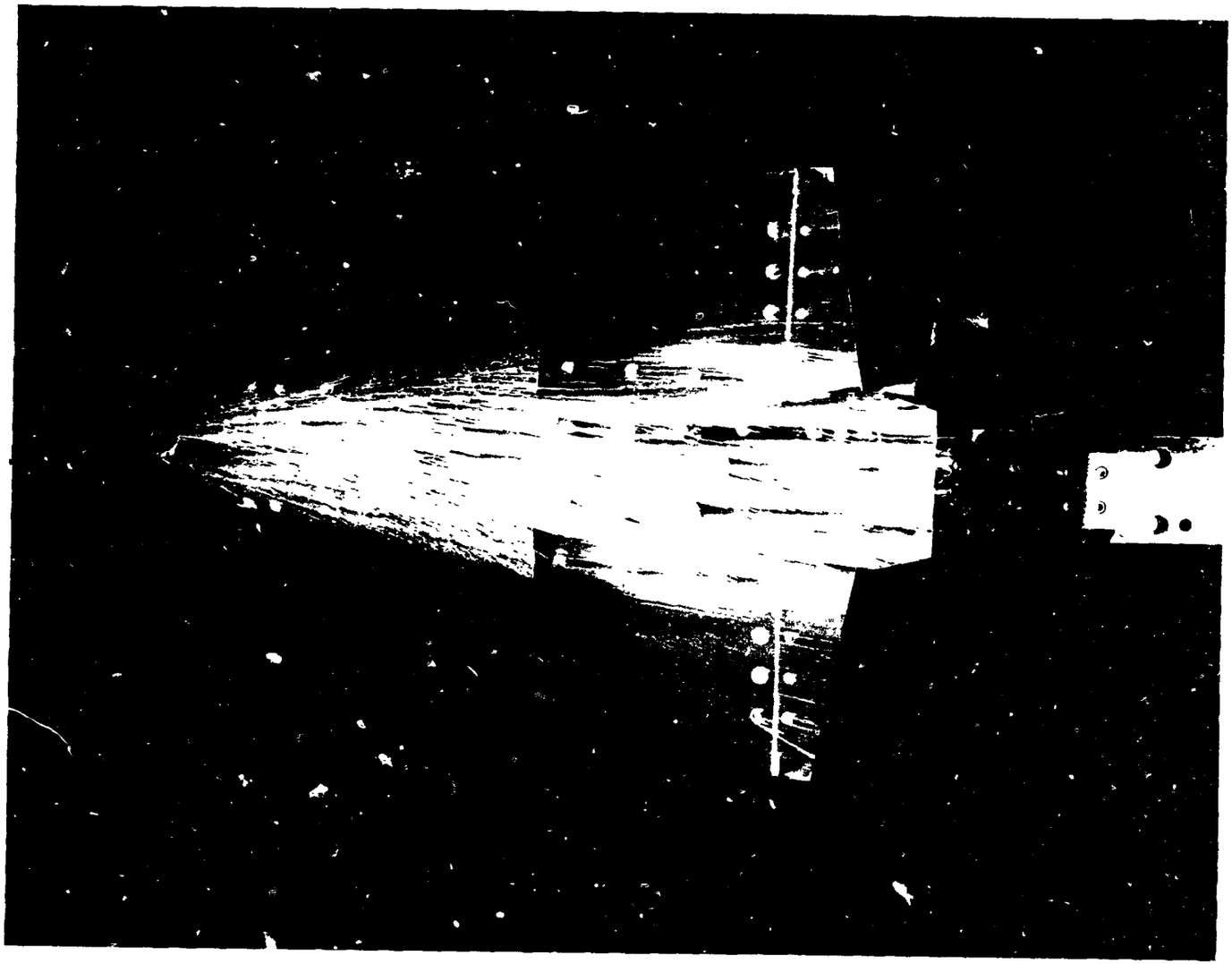
m. Plan View Shadowgraph at Mach 5 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



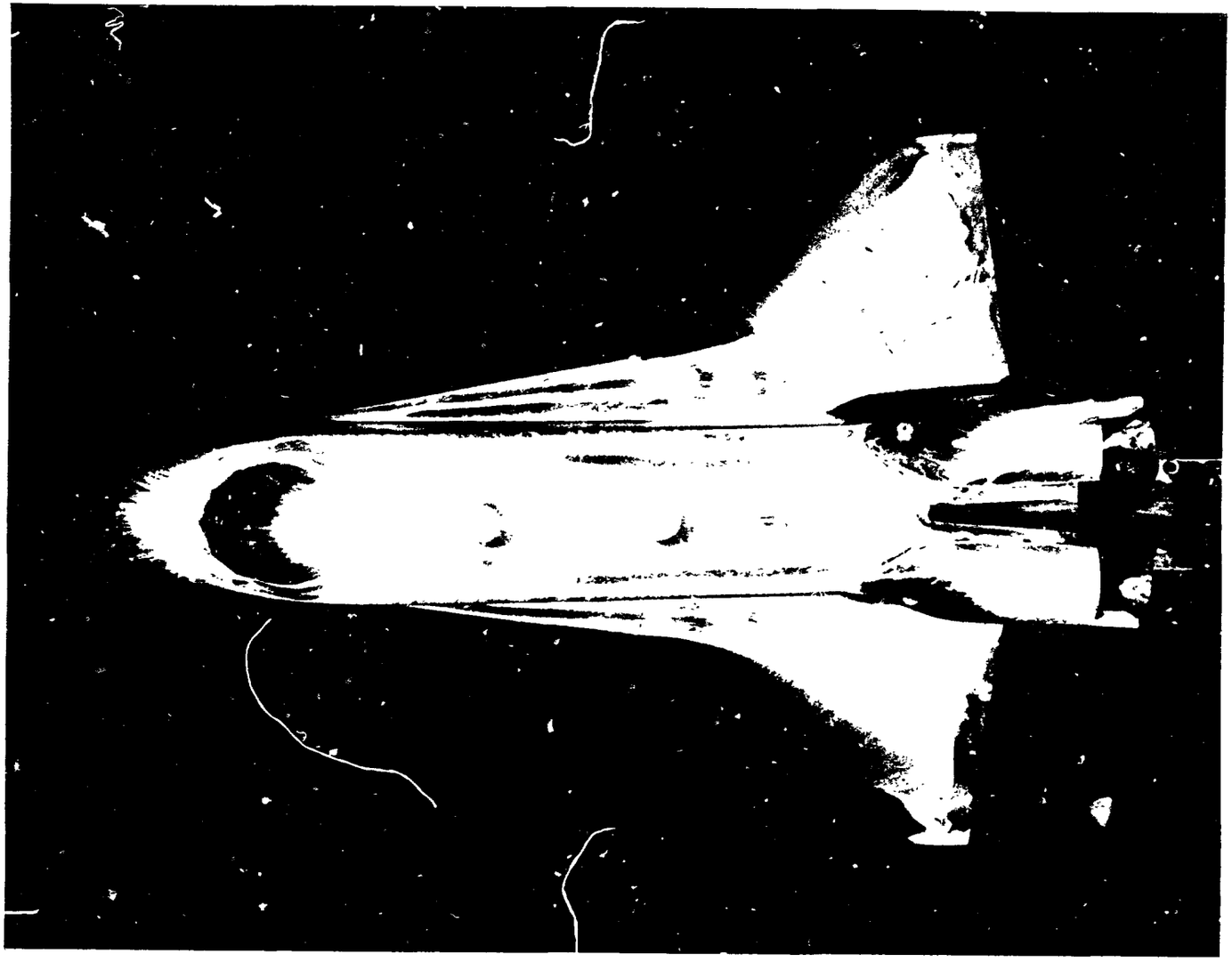
n. Side View Oilflow Photograph at Mach 5 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



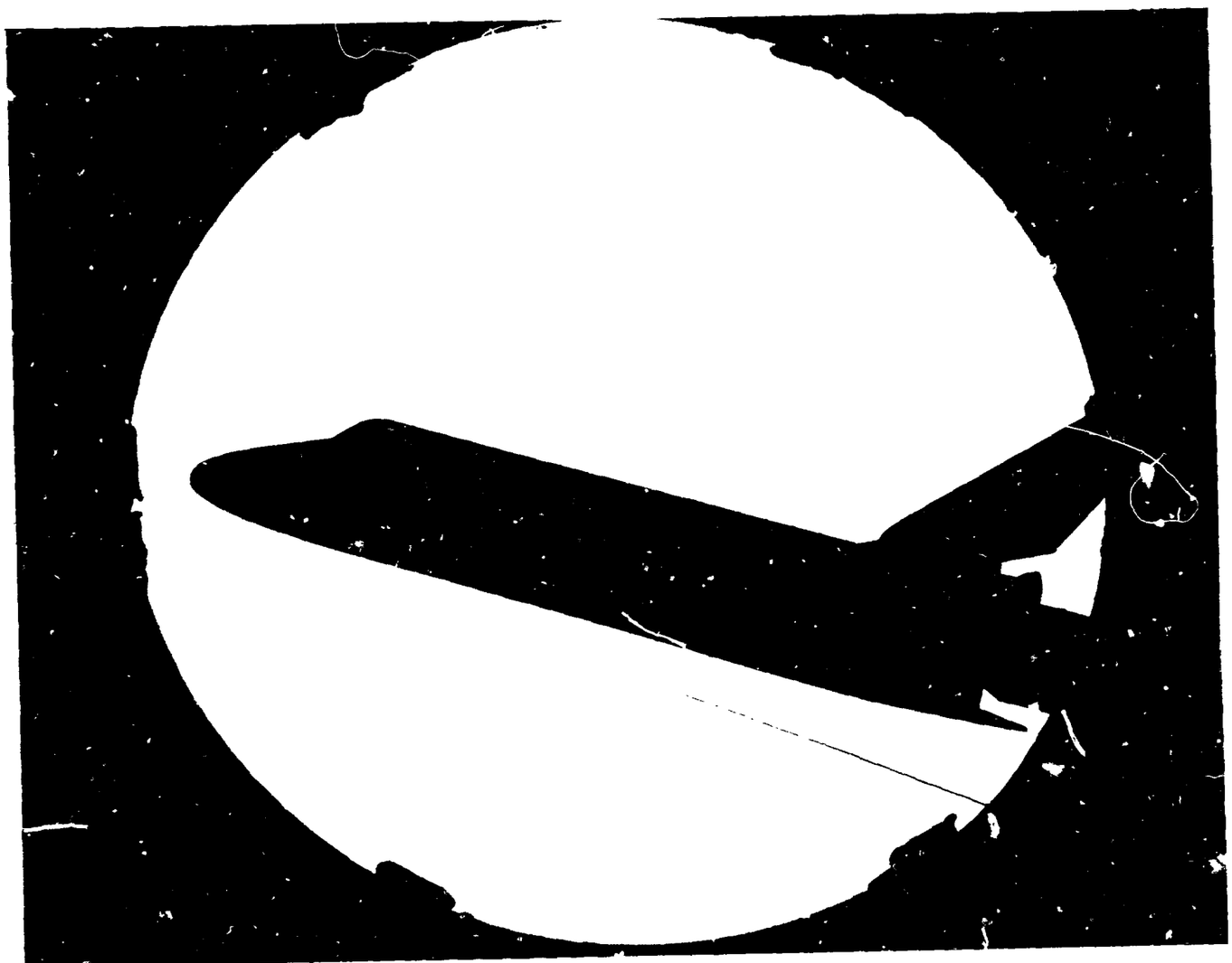
o. Bottom View Oilflow Photograph at Mach 5 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



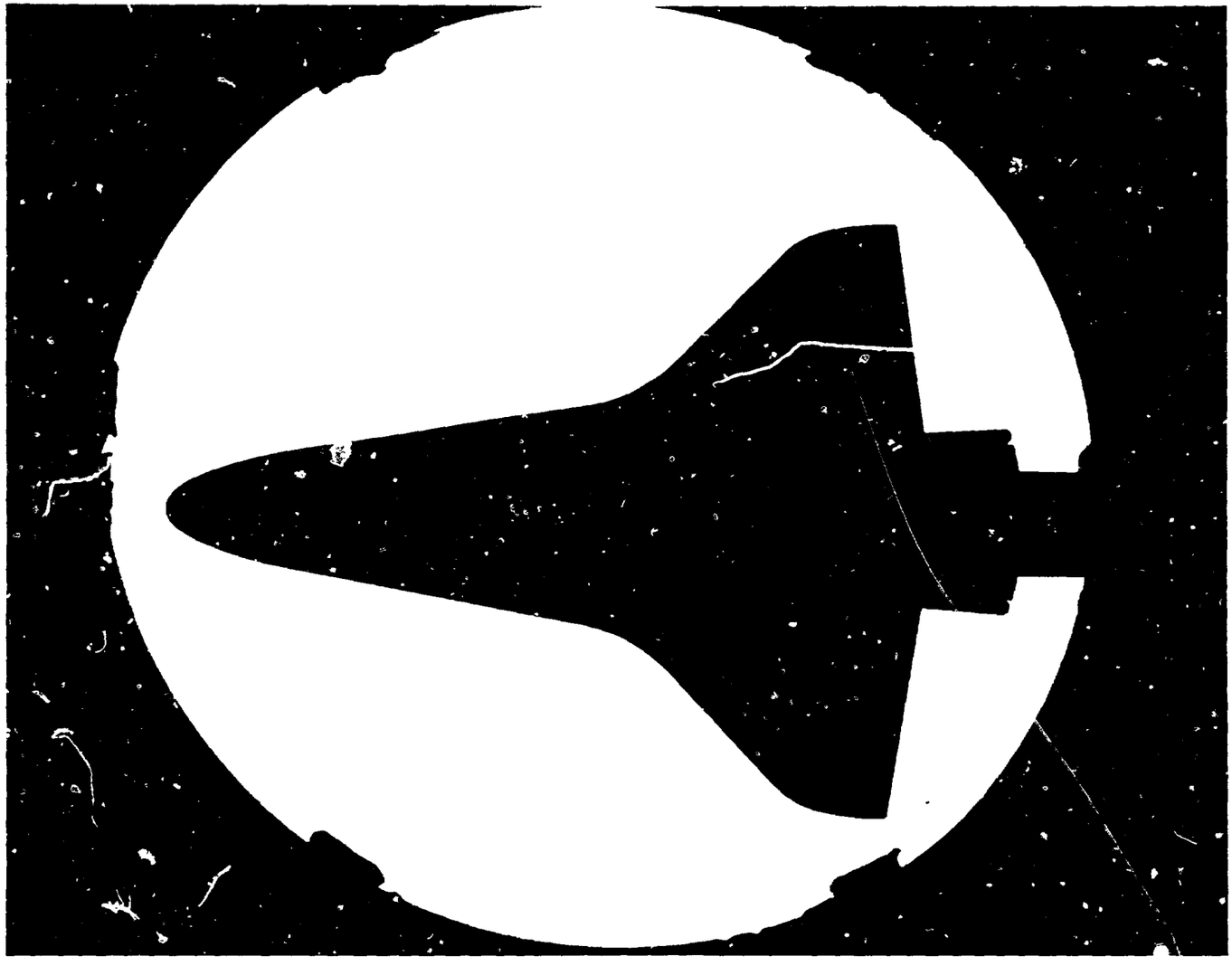
p. Top View Oilflow Photograph at Mach 5 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



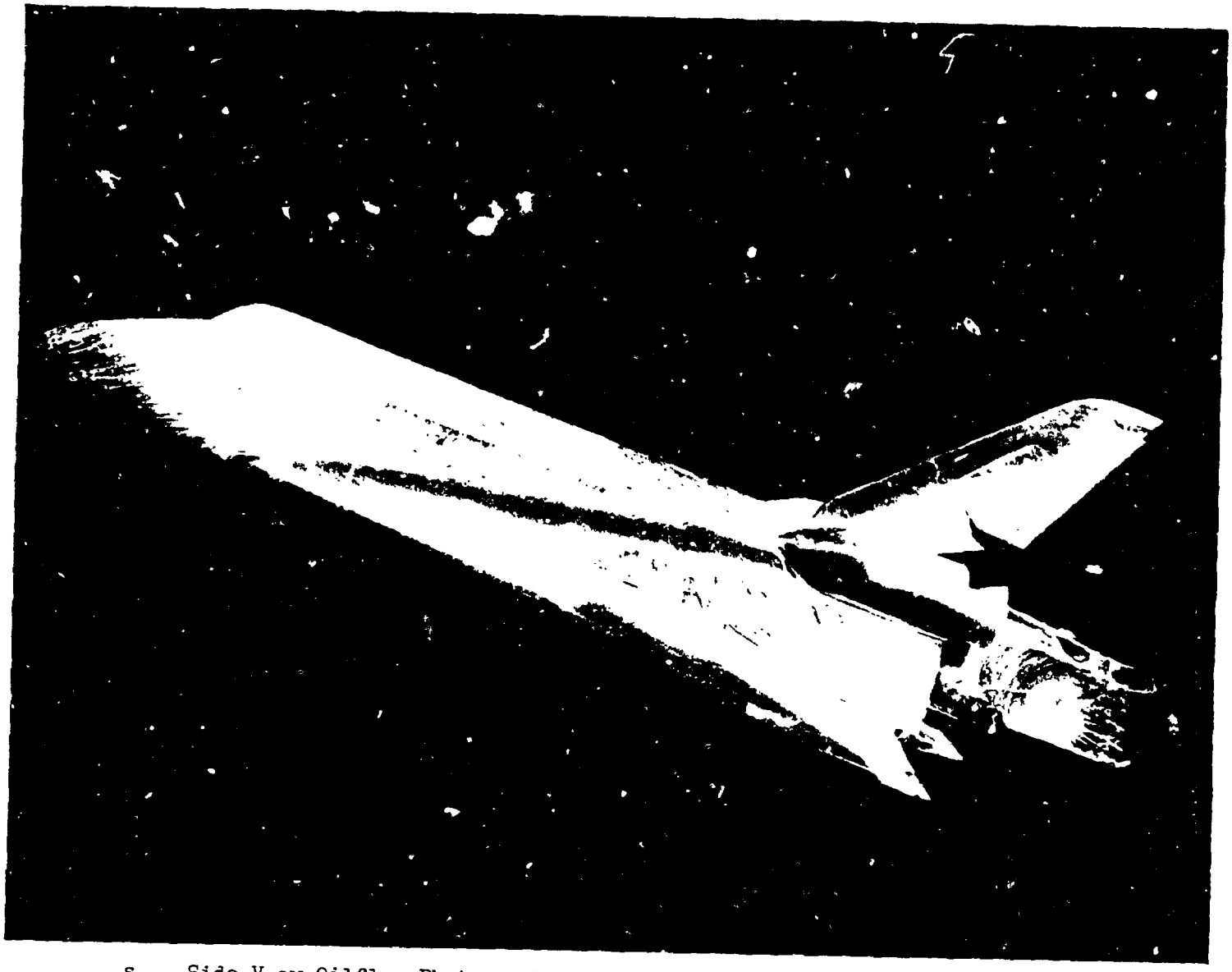
q. Side View Shadowgraph at Mach 7 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



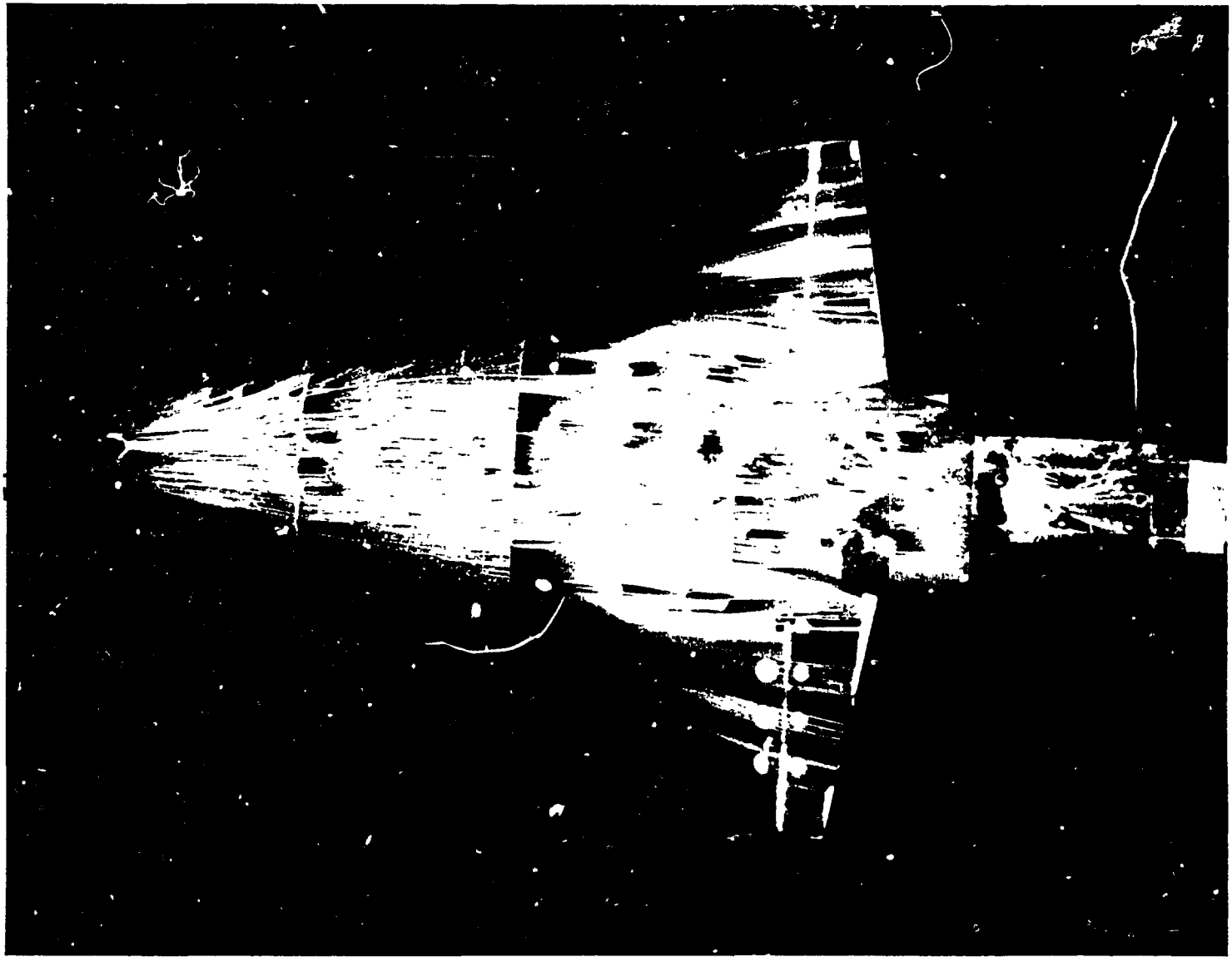
r. Plan View Shadowgraph at Mach 7 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



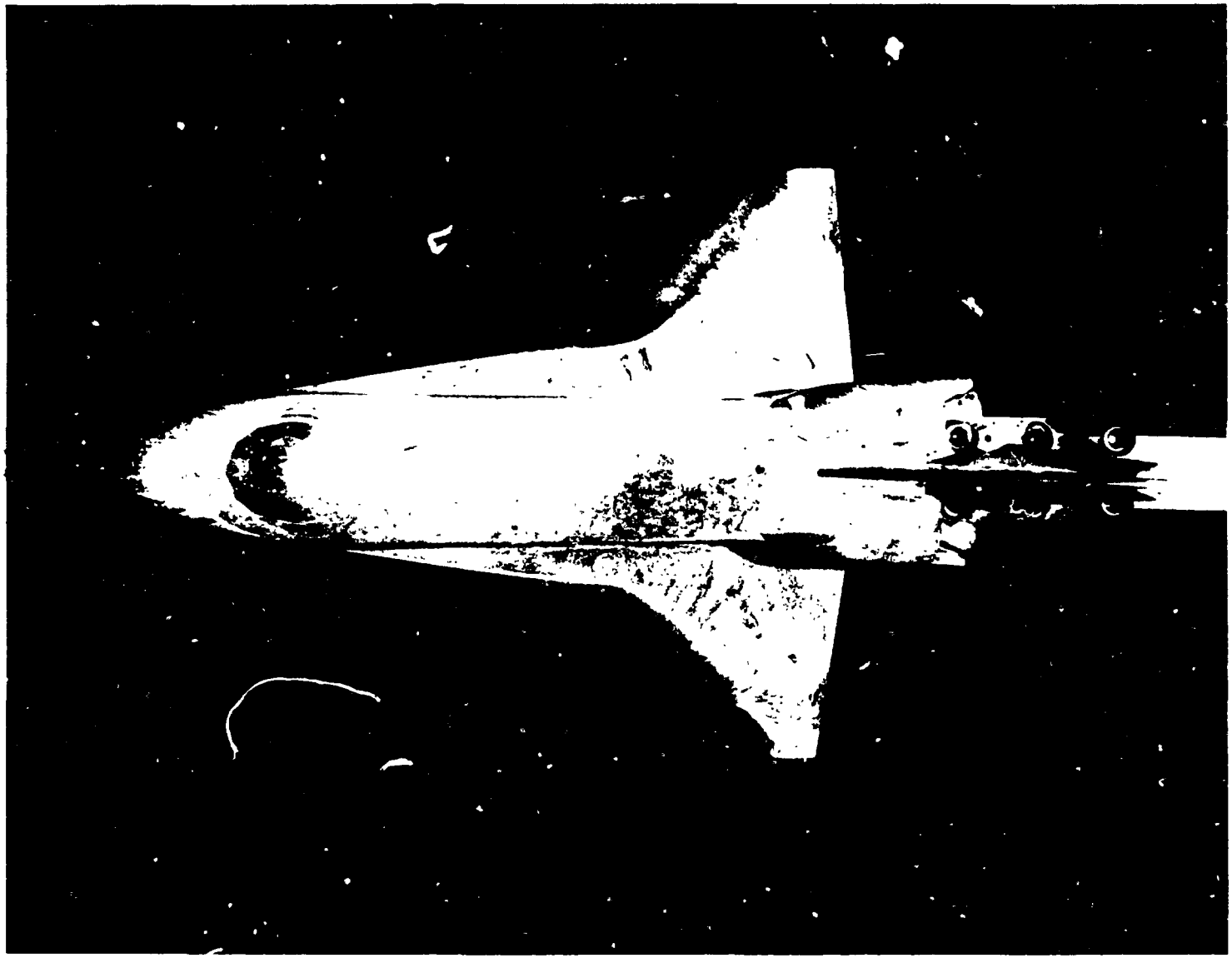
s. Side View Oilflow Photograph at Mach 7 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



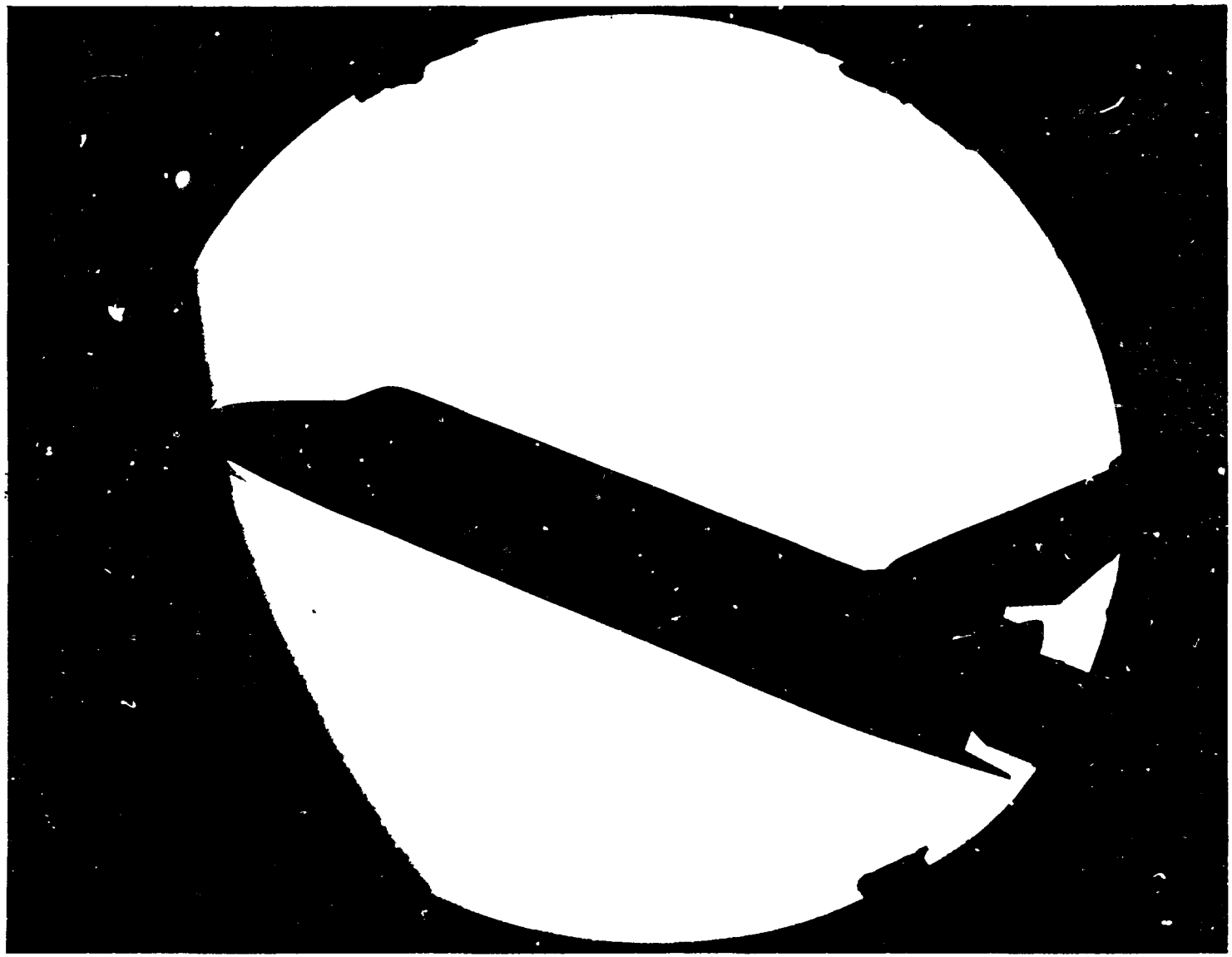
t. Bottom View Oilflow Photograph at Mach 7 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



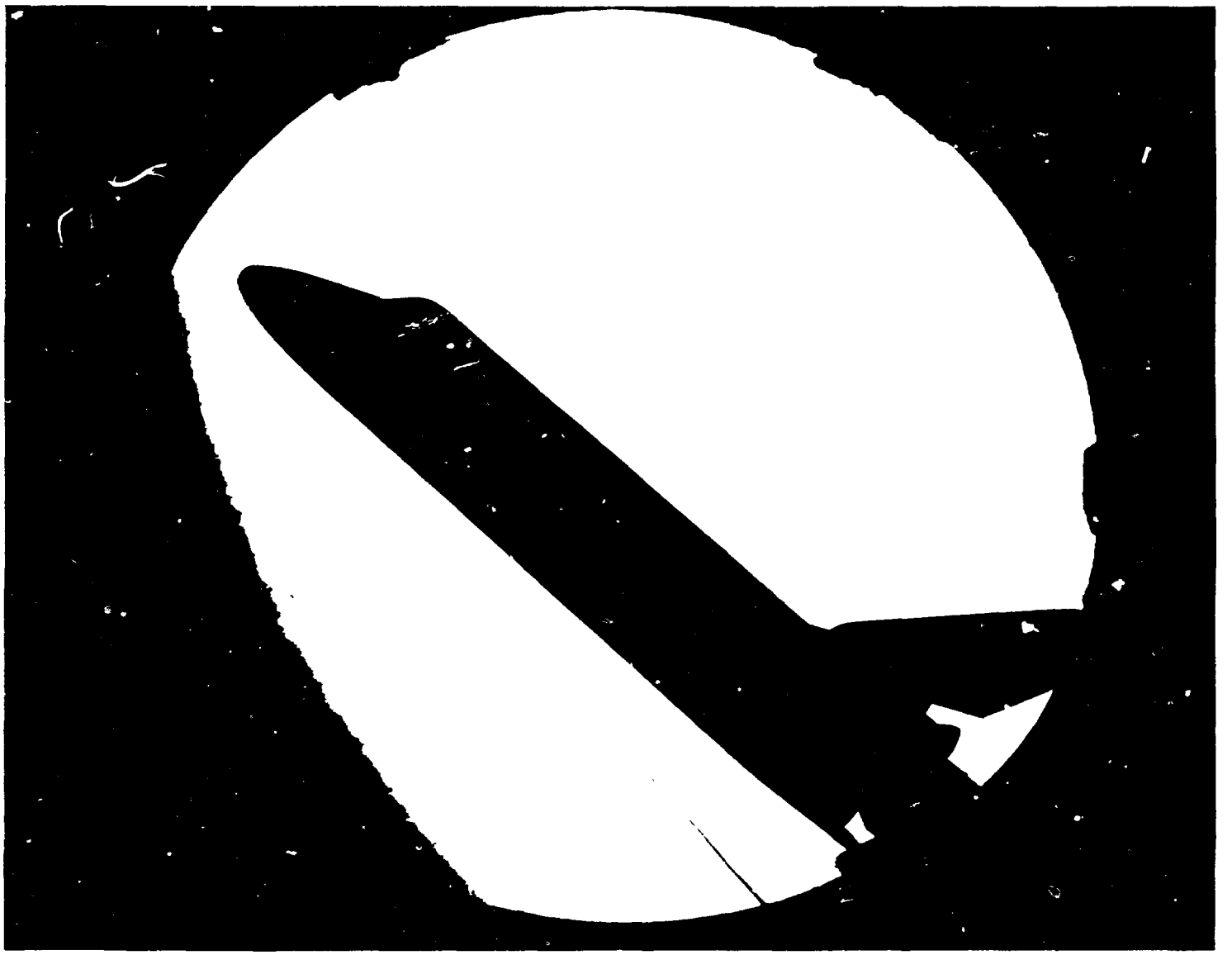
u. Top View Oilflow Photograph at Mach 7 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



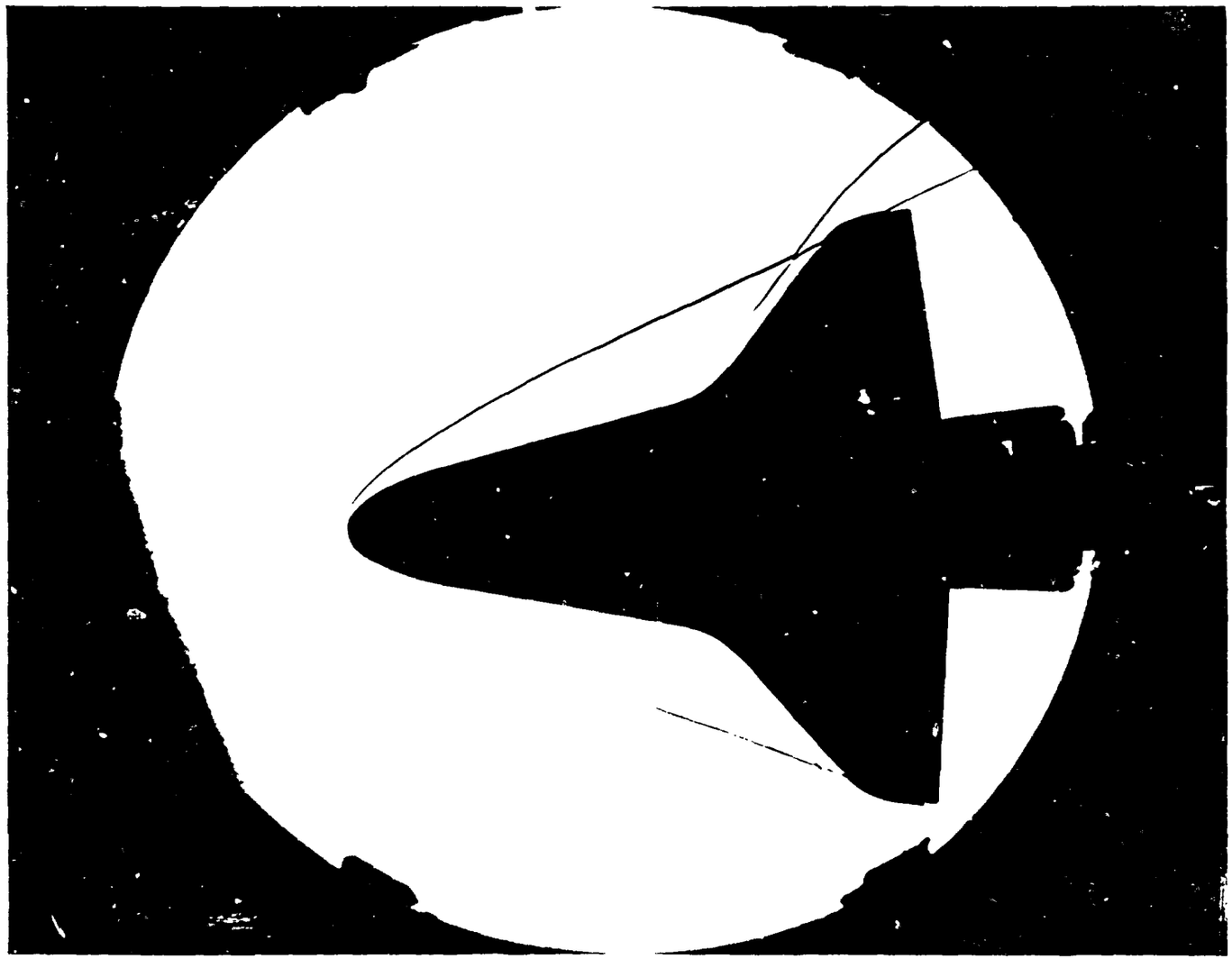
v. Side View Shadowgraph at Mach 10 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



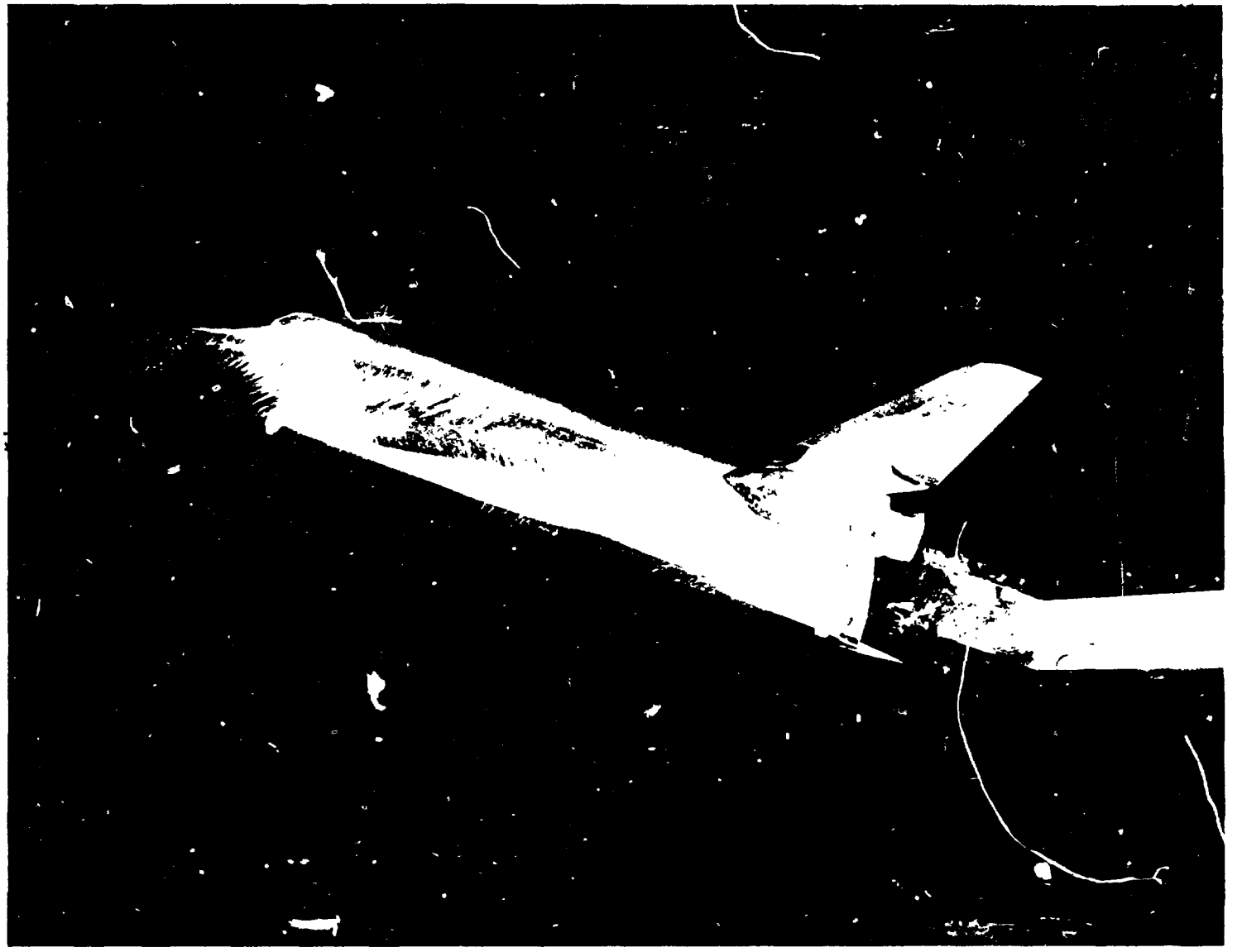
w. Side View Shadowgraph at Mach 5 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



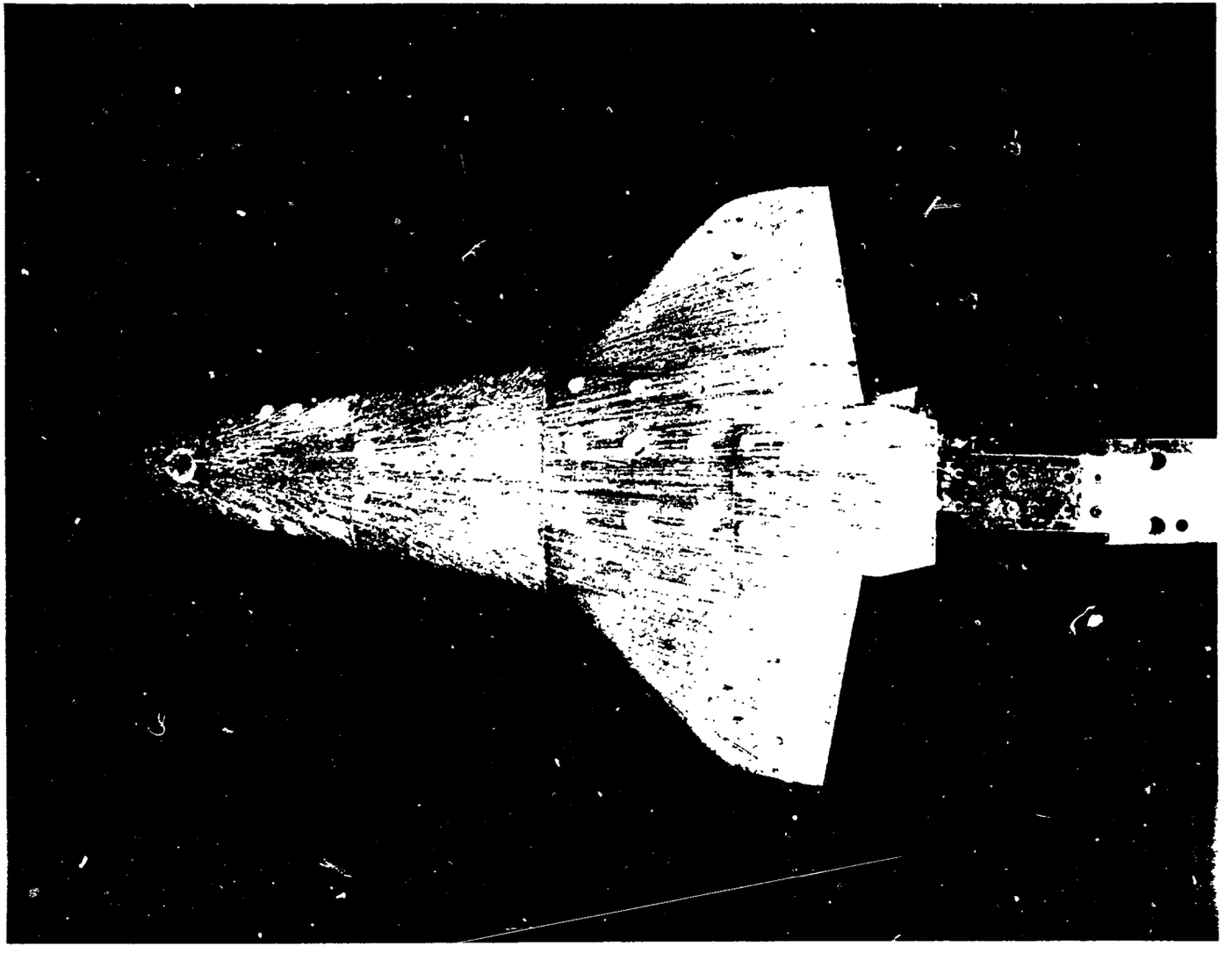
x. Plan View Shadowgraph at Mach 5 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



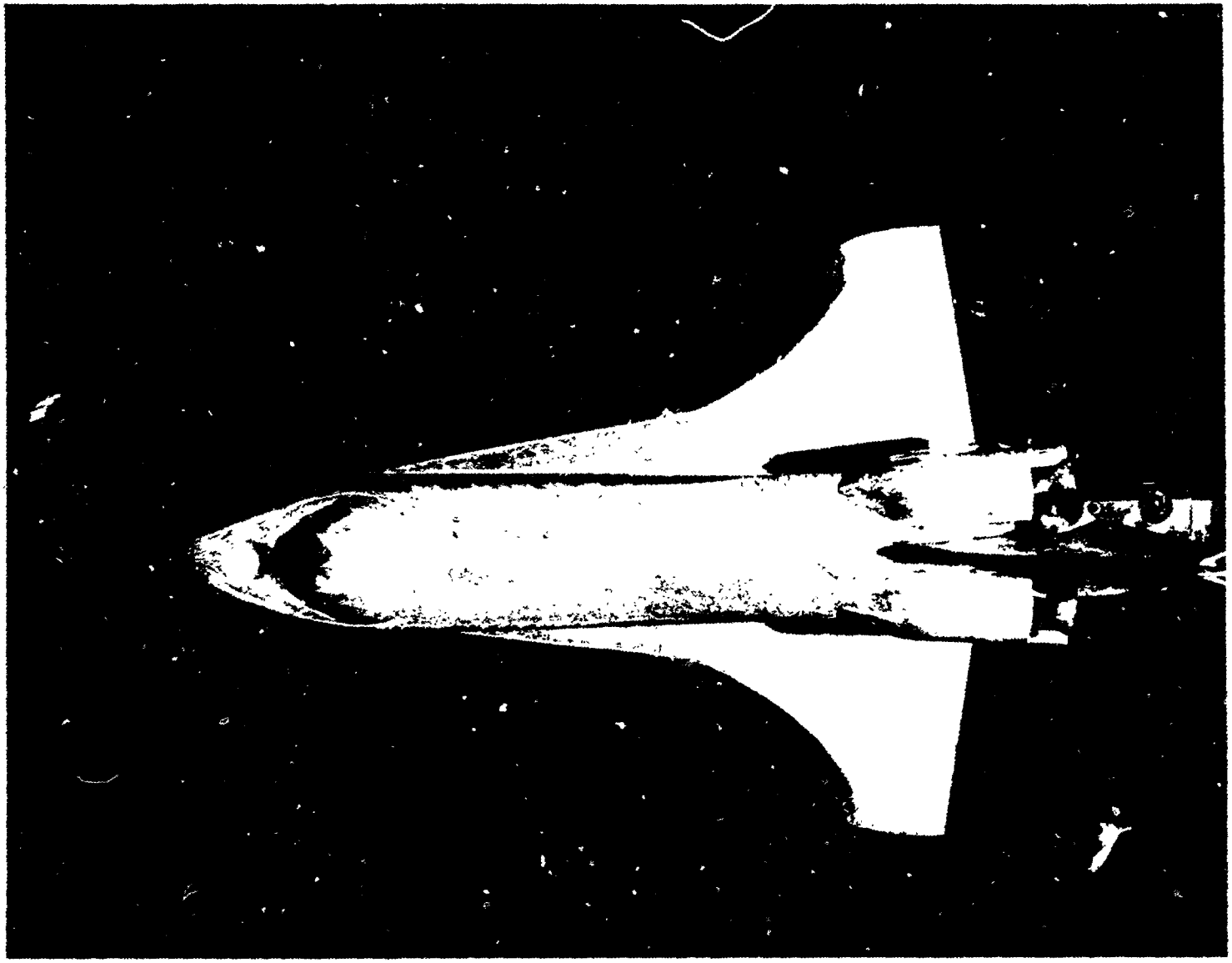
y. Side View Oilflow Photograph at Mach 5 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



z. Bottom View Oilflow Photograph at Mach 5 and 40 Degrees Angle of Attack.

Figure 3. - Continued.

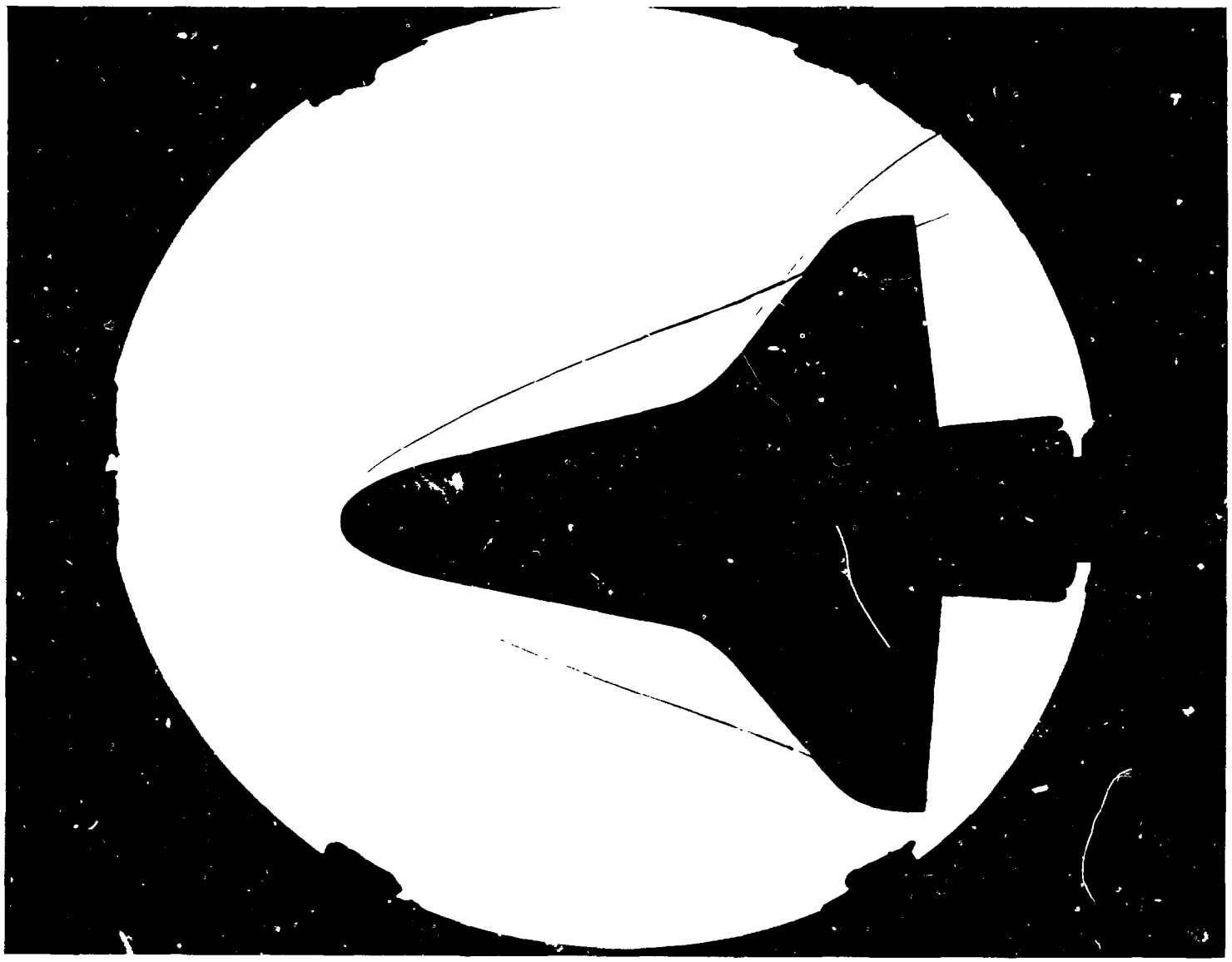


aa. Top View Oilflow Photograph at Mach 5 and 40 Degrees Angle of Attack.

Figure 3. - Continued.

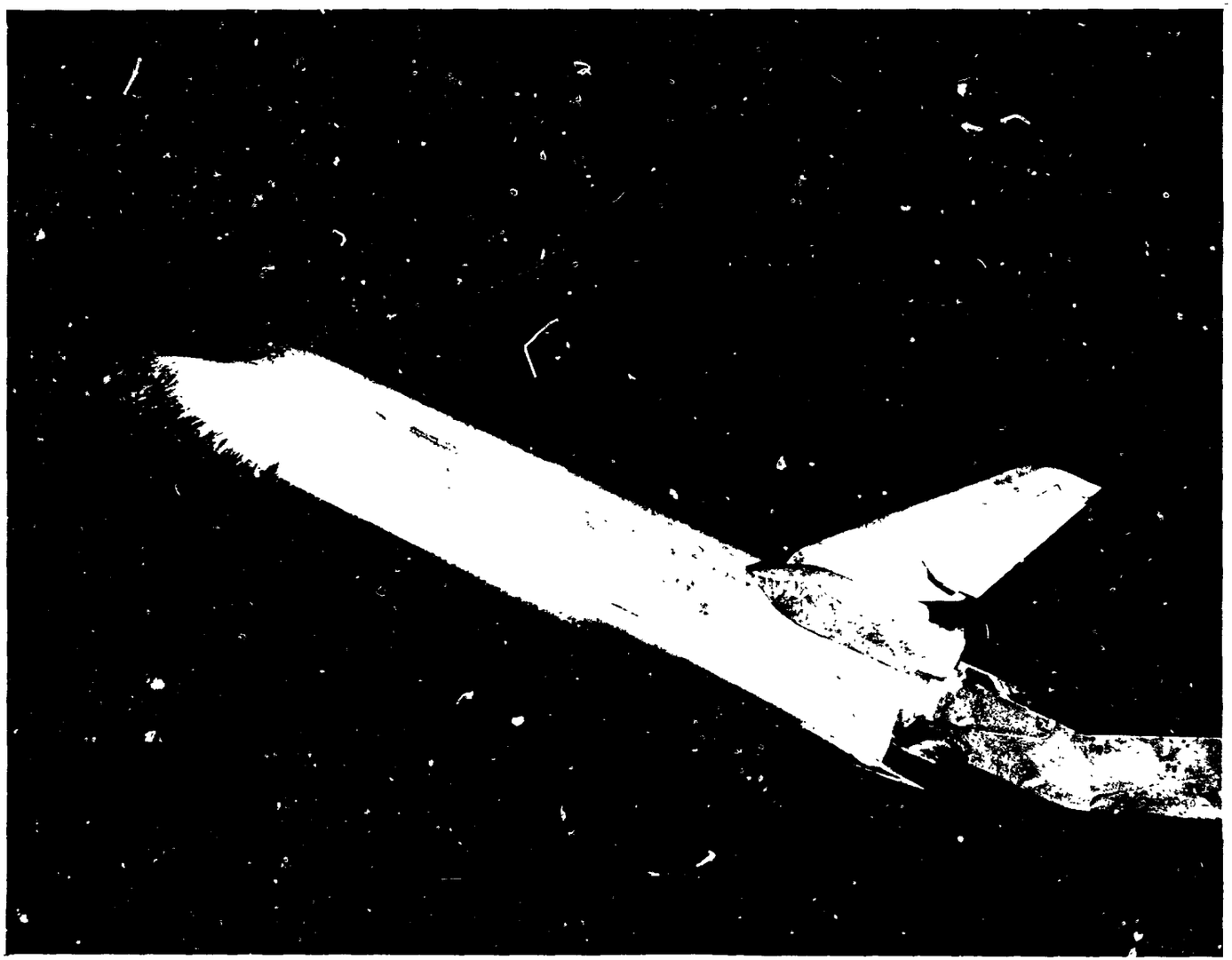
bb. Side View Shadowgraph at Mach 7 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



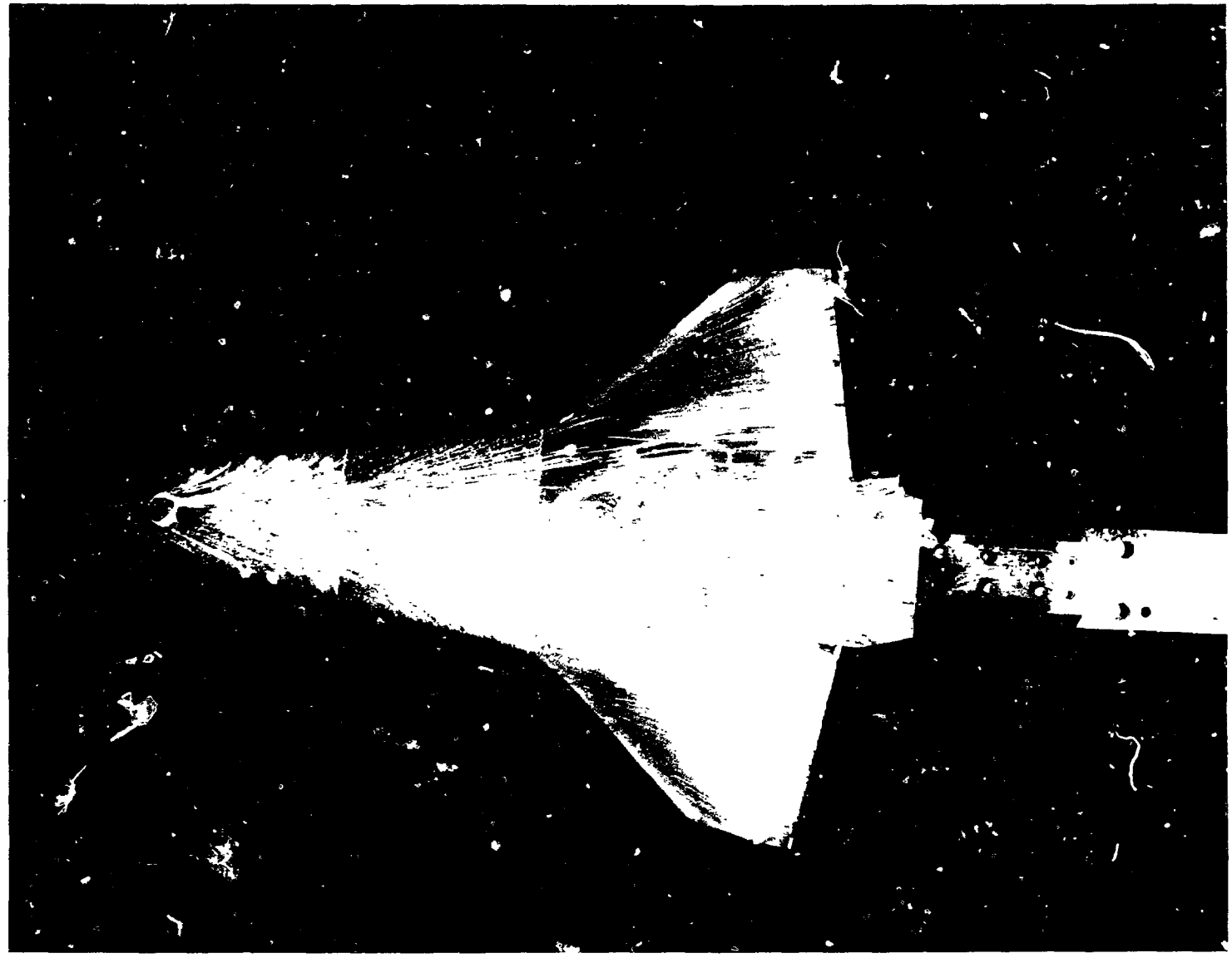
cc. Plan View Shadowgraph at Mach 7 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



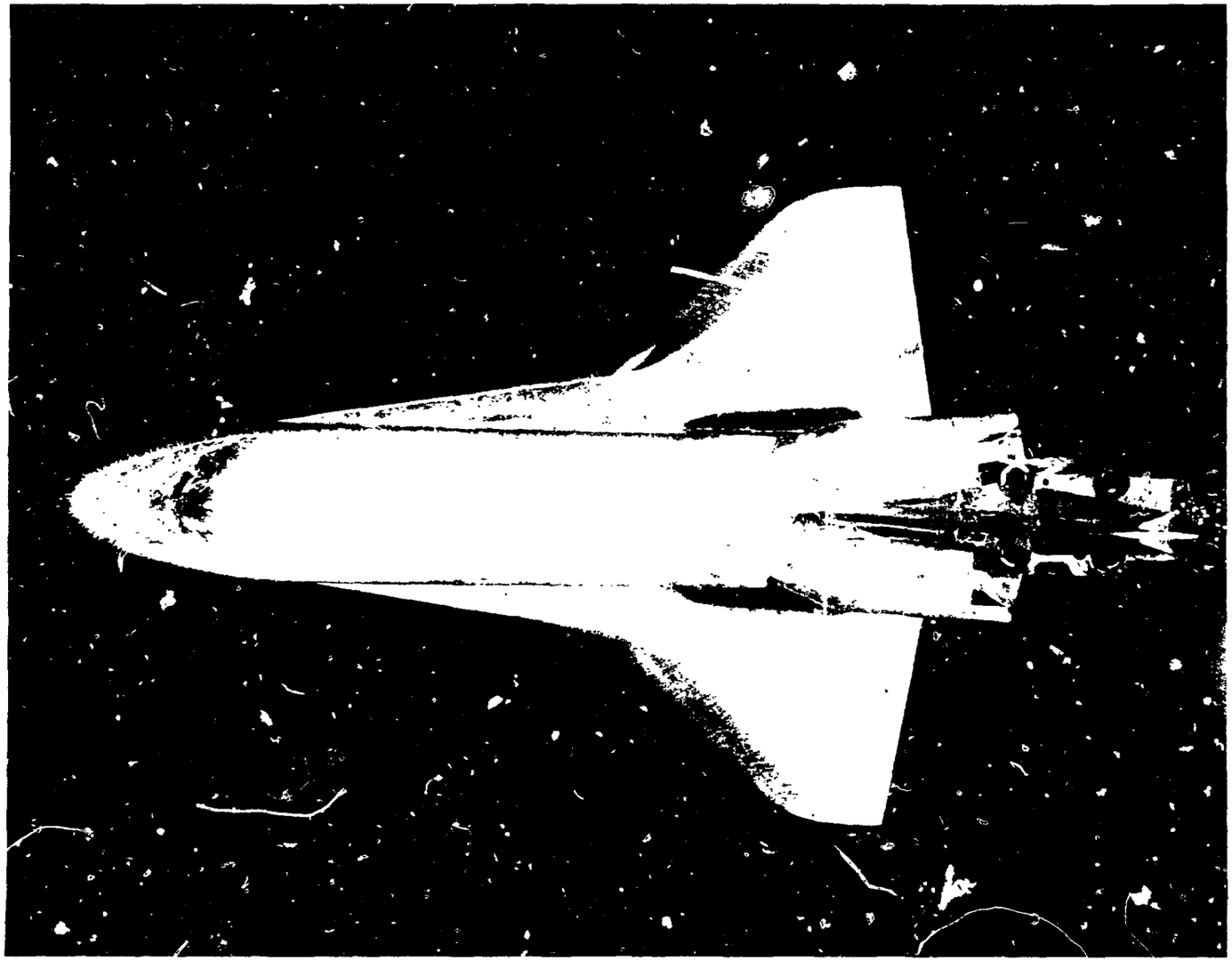
dd. Side View Oilflow Photograph at Mach 7 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



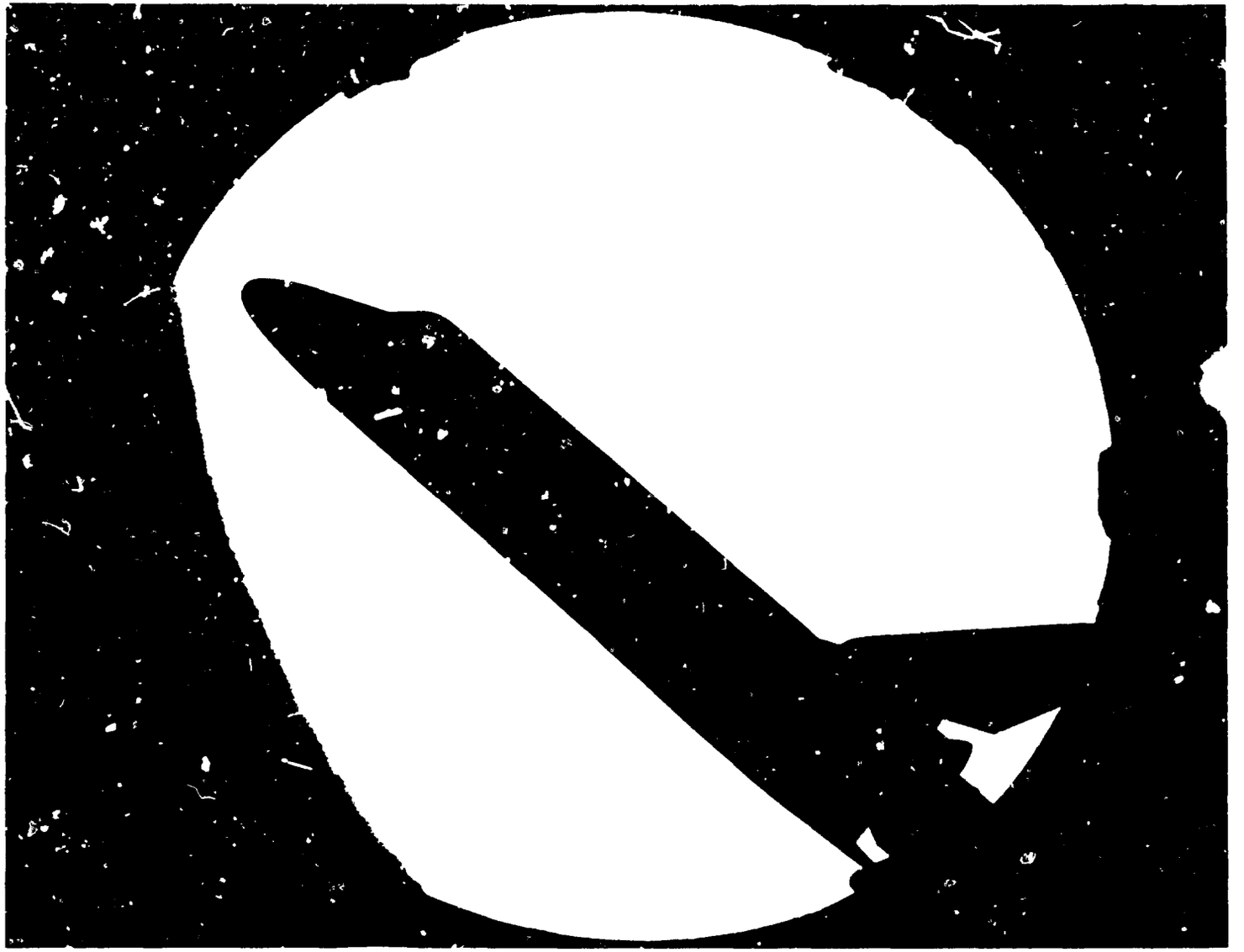
ee. Bottom View Oilflow Photograph at Mach 7 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



Top View Oilflow Photograph at Mach 7 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



gg. Side View Shadowgraph at Mach 10 and 40 Degrees Angle of Attack.

Figure 3. - Concluded.

DATA FIGURES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(C85001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(C85003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(C85004)	⊗	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(C85005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(C85C9A)	▷	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

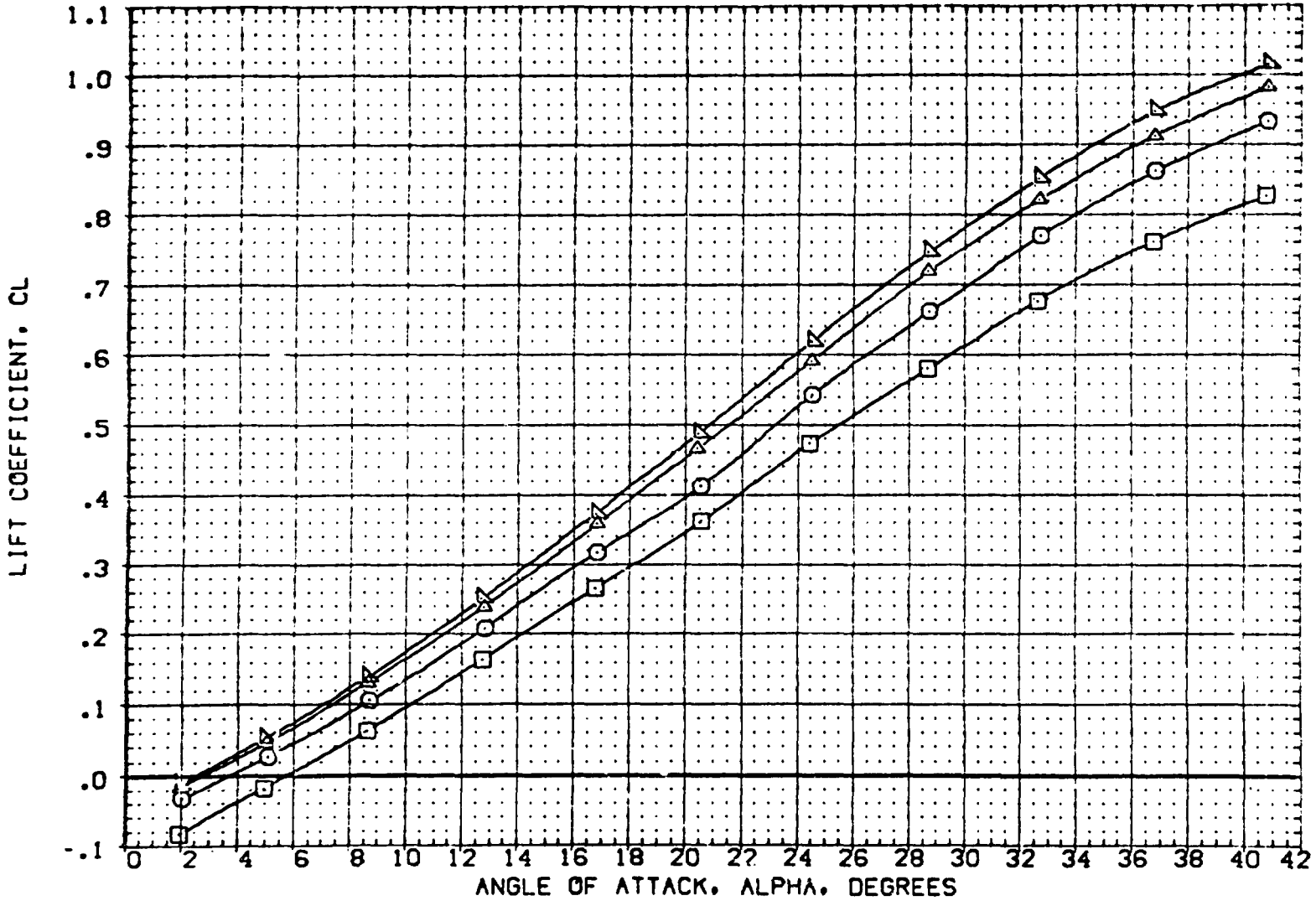


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB6009A)	▷	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

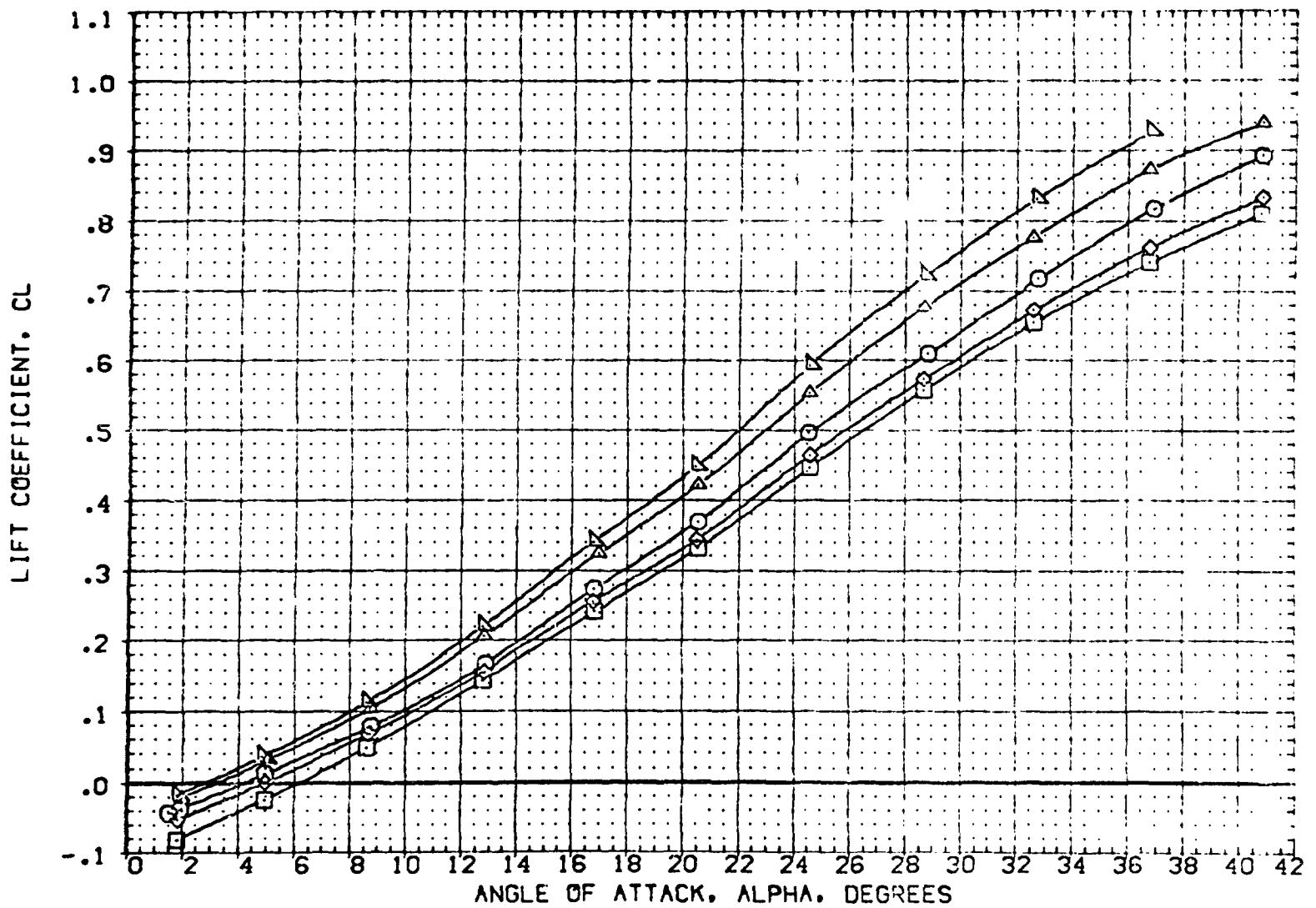


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB60C3)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB6C9A)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.9000	IN.
BREF	936.6800	IN.
XMRP	1076.4600	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

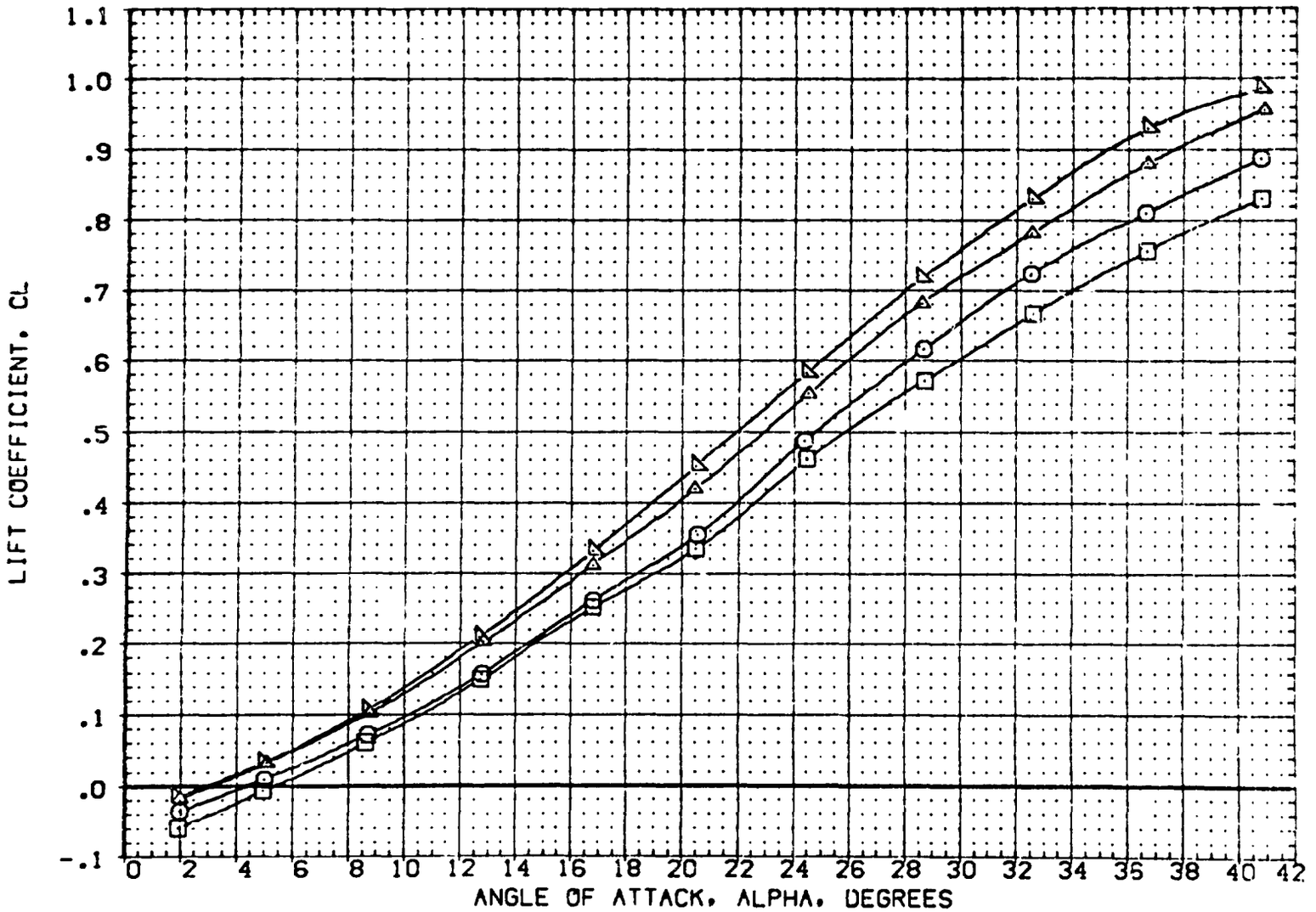


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOTLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB6009A)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

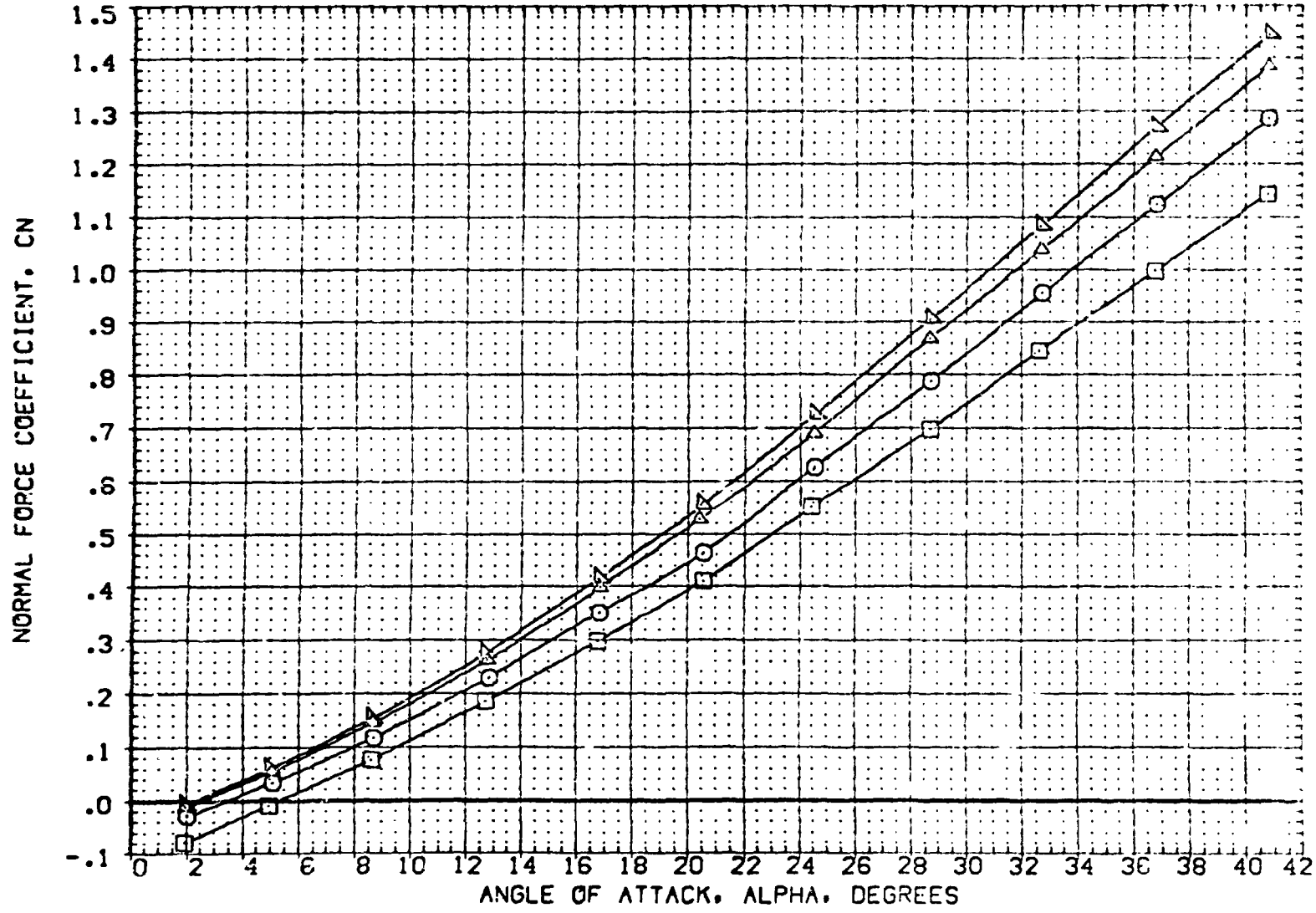


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	⋈	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB6C9A)	◺	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

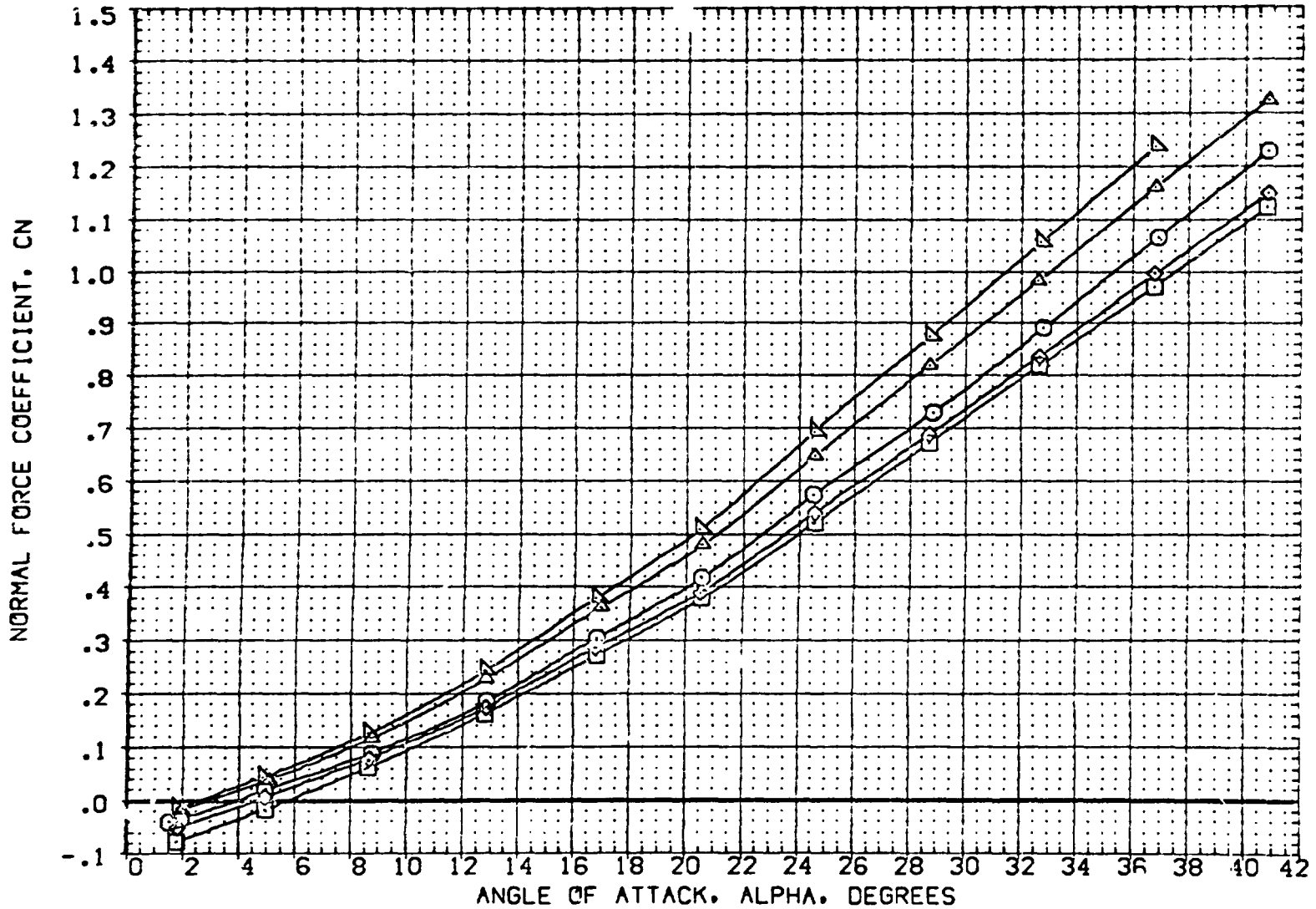


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	*MES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.300	-14.250	55.000	.000
(CB6009A)	▽	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	[illegible]	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

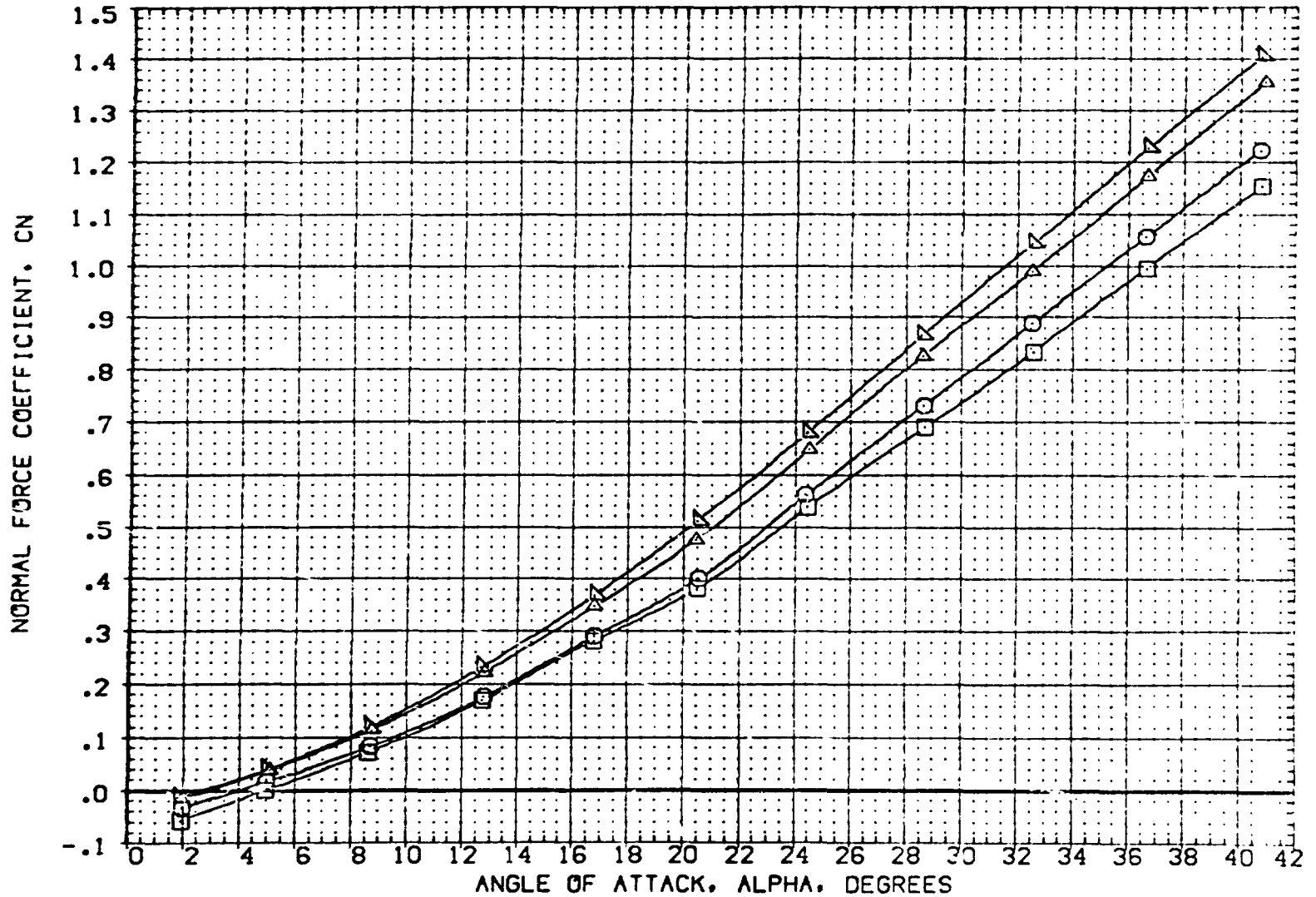


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB60C4)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB609A)	▷	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

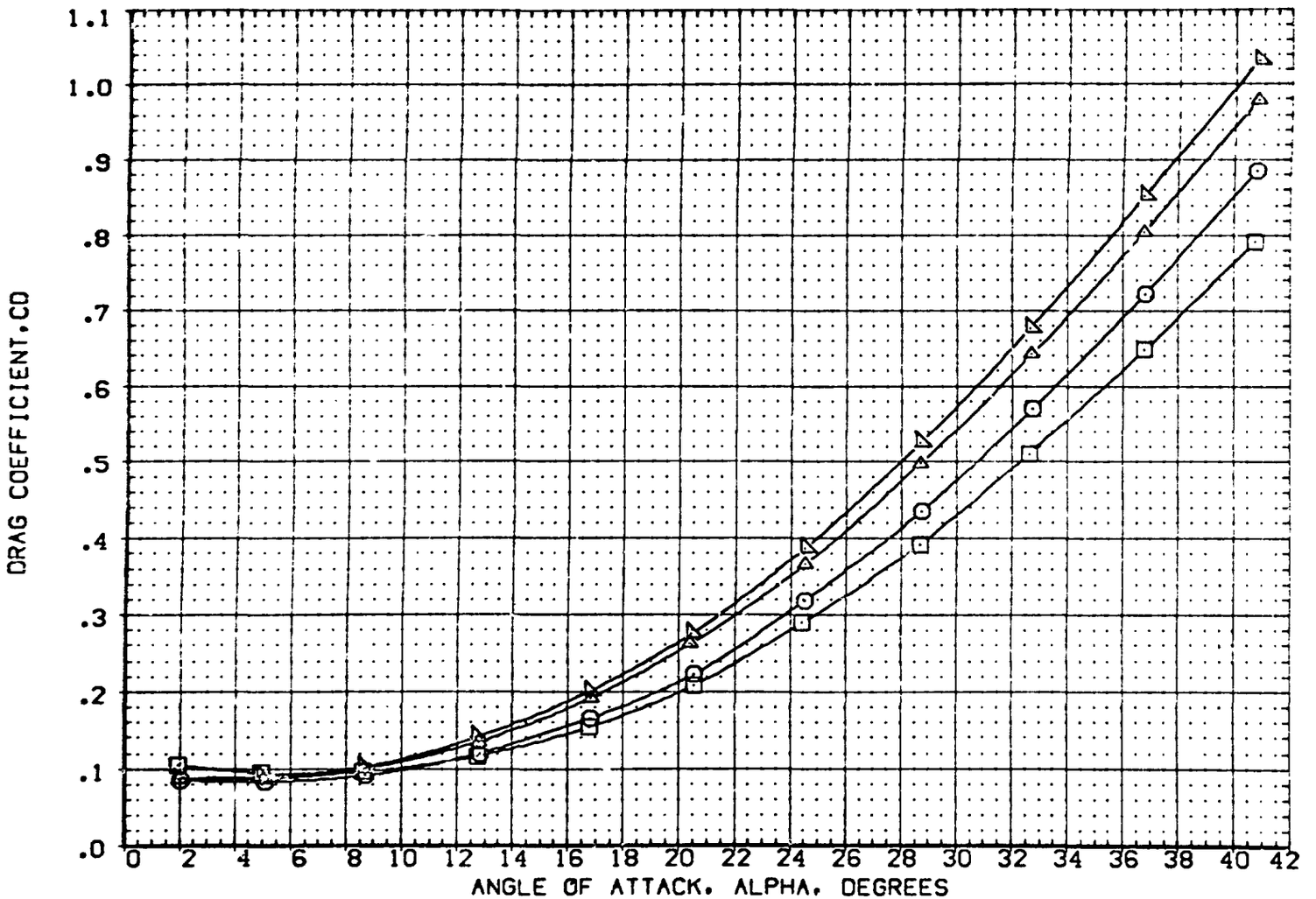


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(CB6005)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.6900	IN.
XMRP	1076.1000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

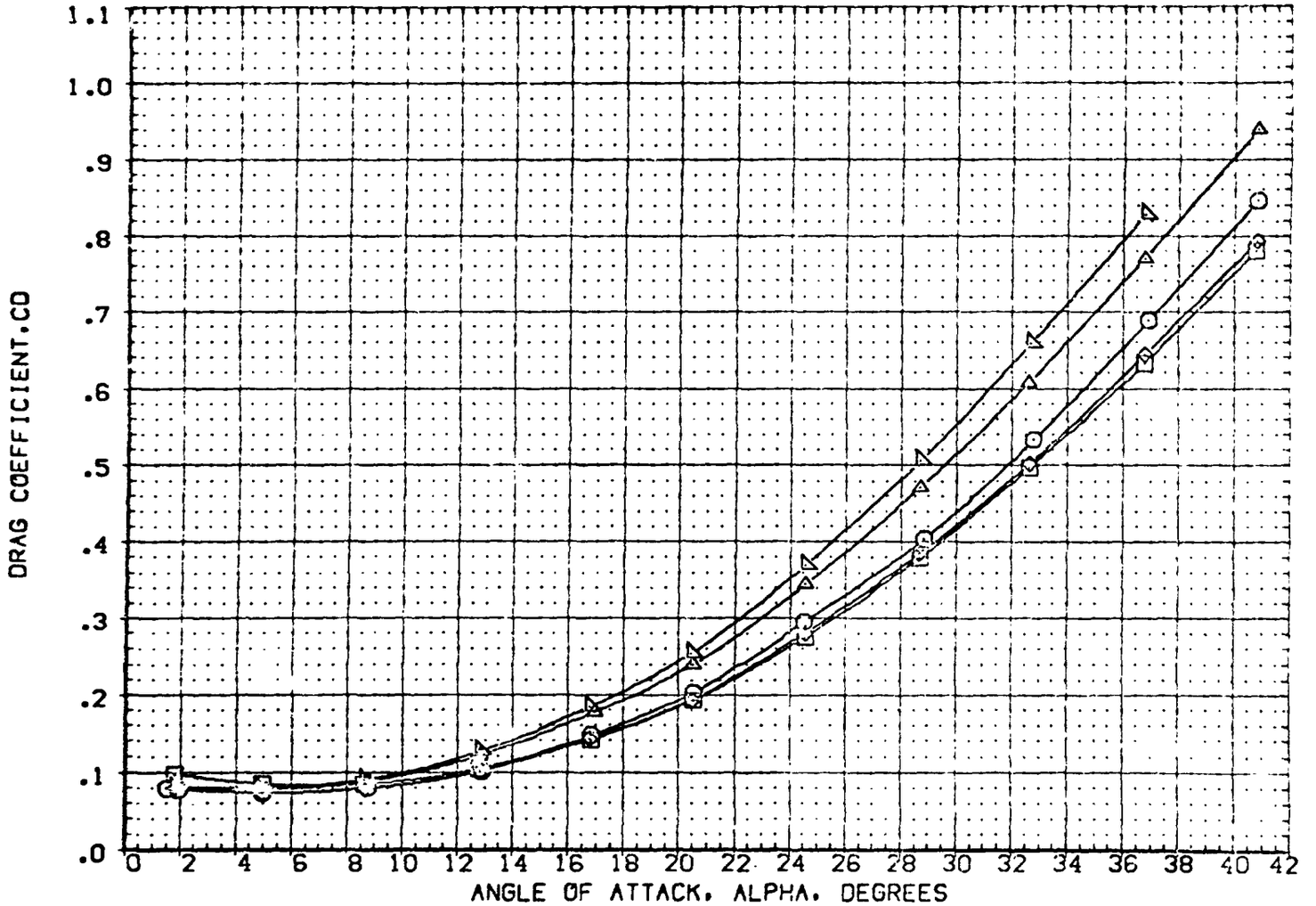


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB609A)	◁	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

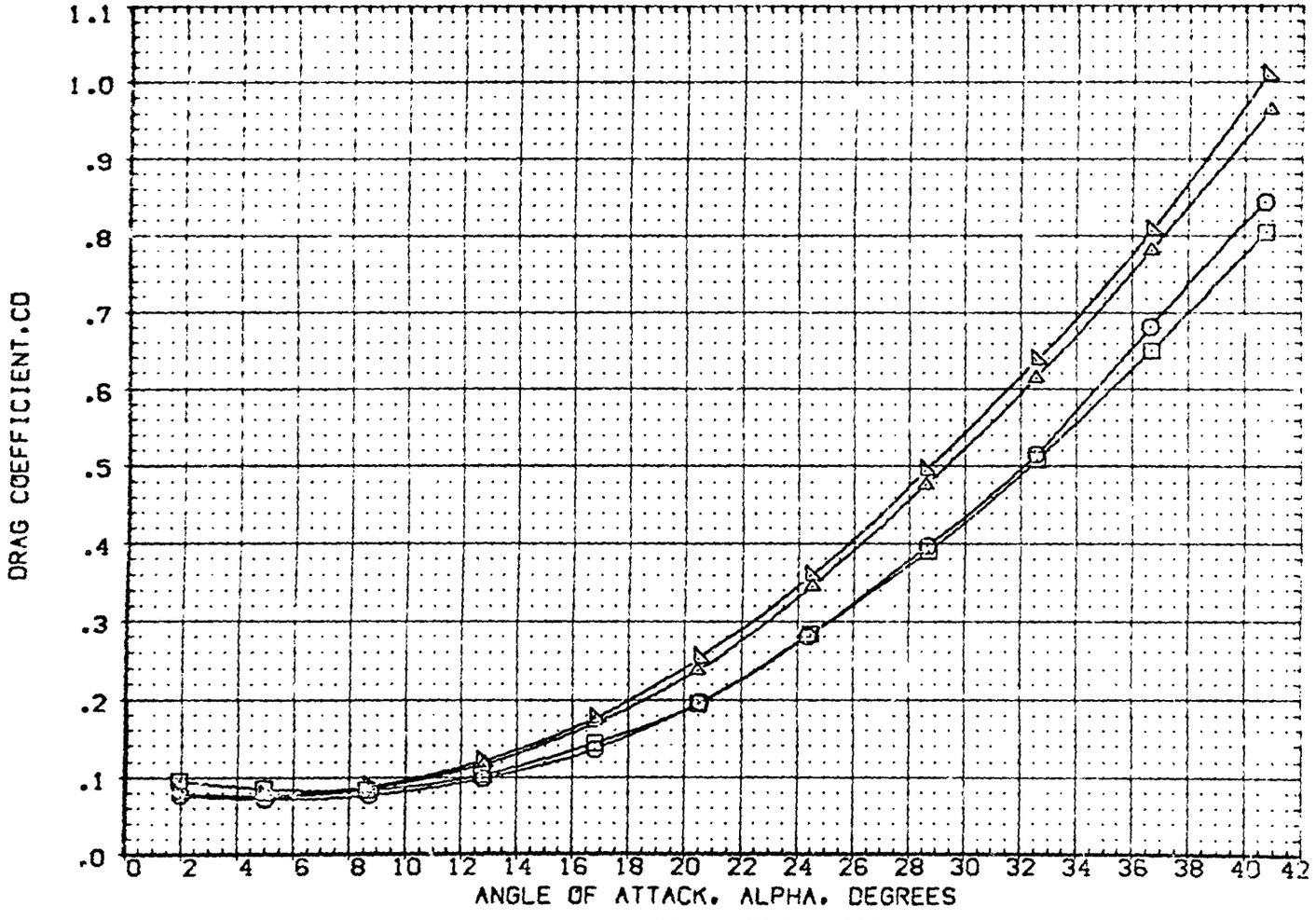


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	◇	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	▽	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	△	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

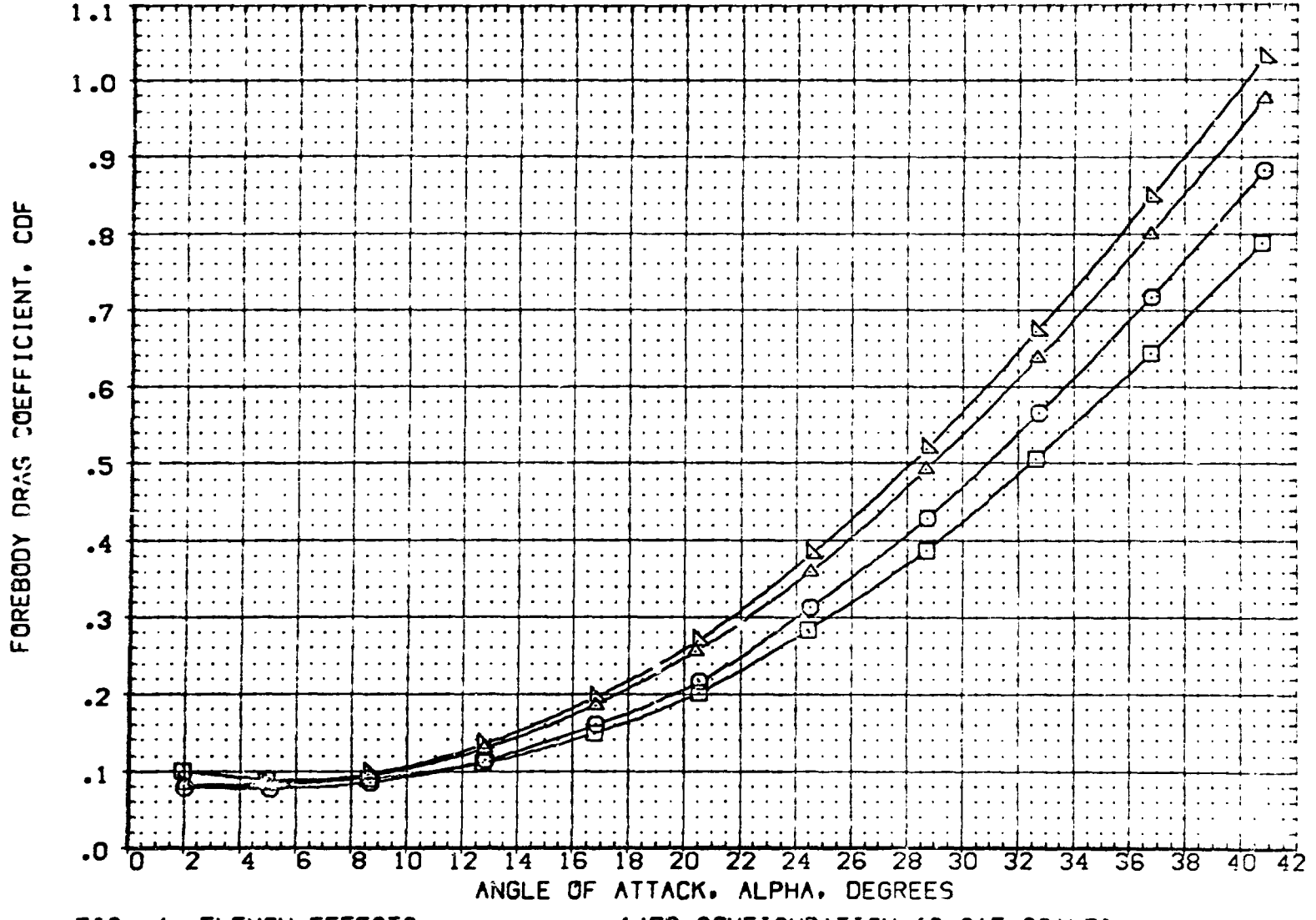


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(B6001)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(B6003)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-10.000	-14.250	55.000	.000
(B6004)	◁	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(B6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(B6009A)	▽	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

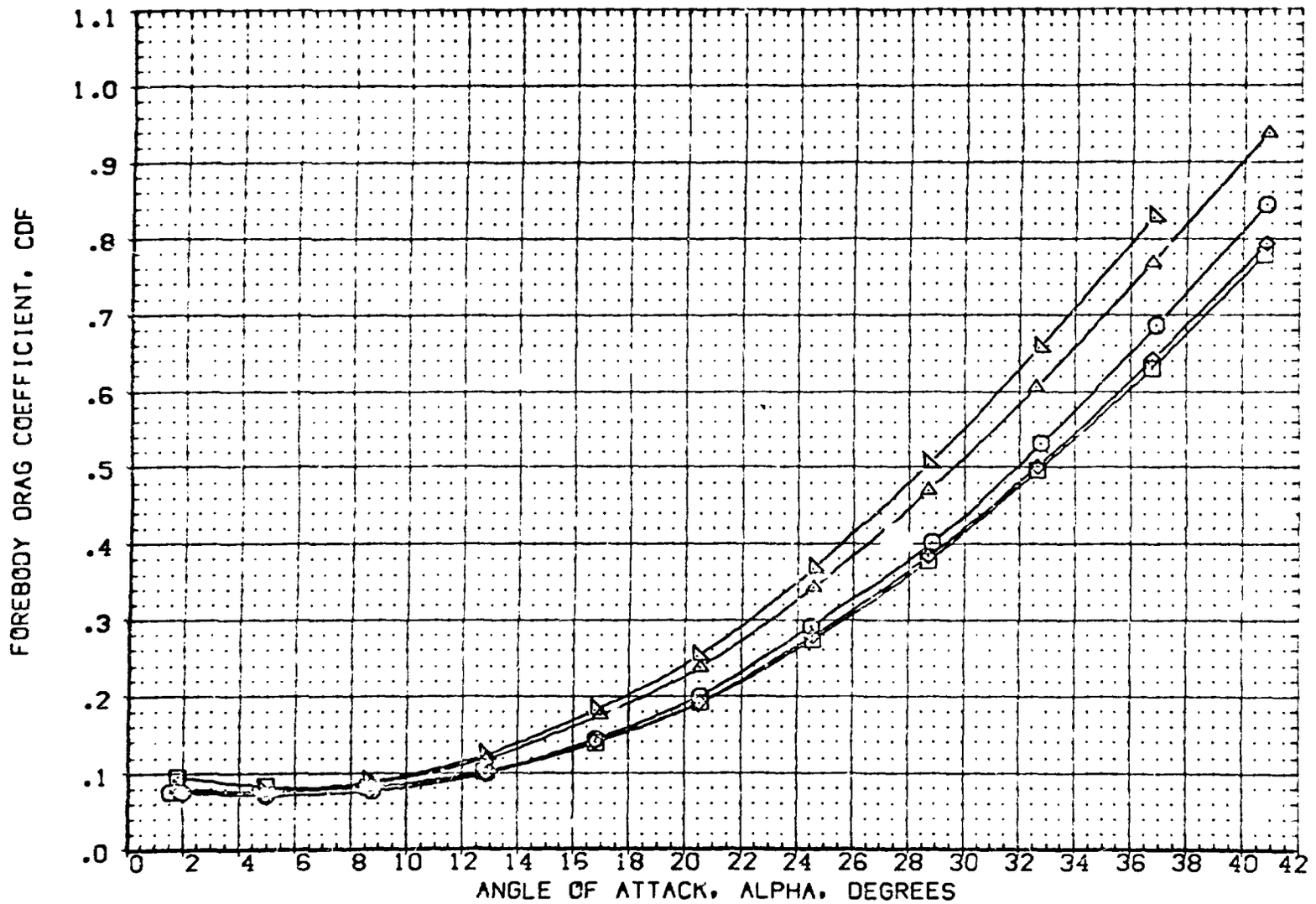


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)	◻	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)		DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	1.8900	IN.
BREF	.5400	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

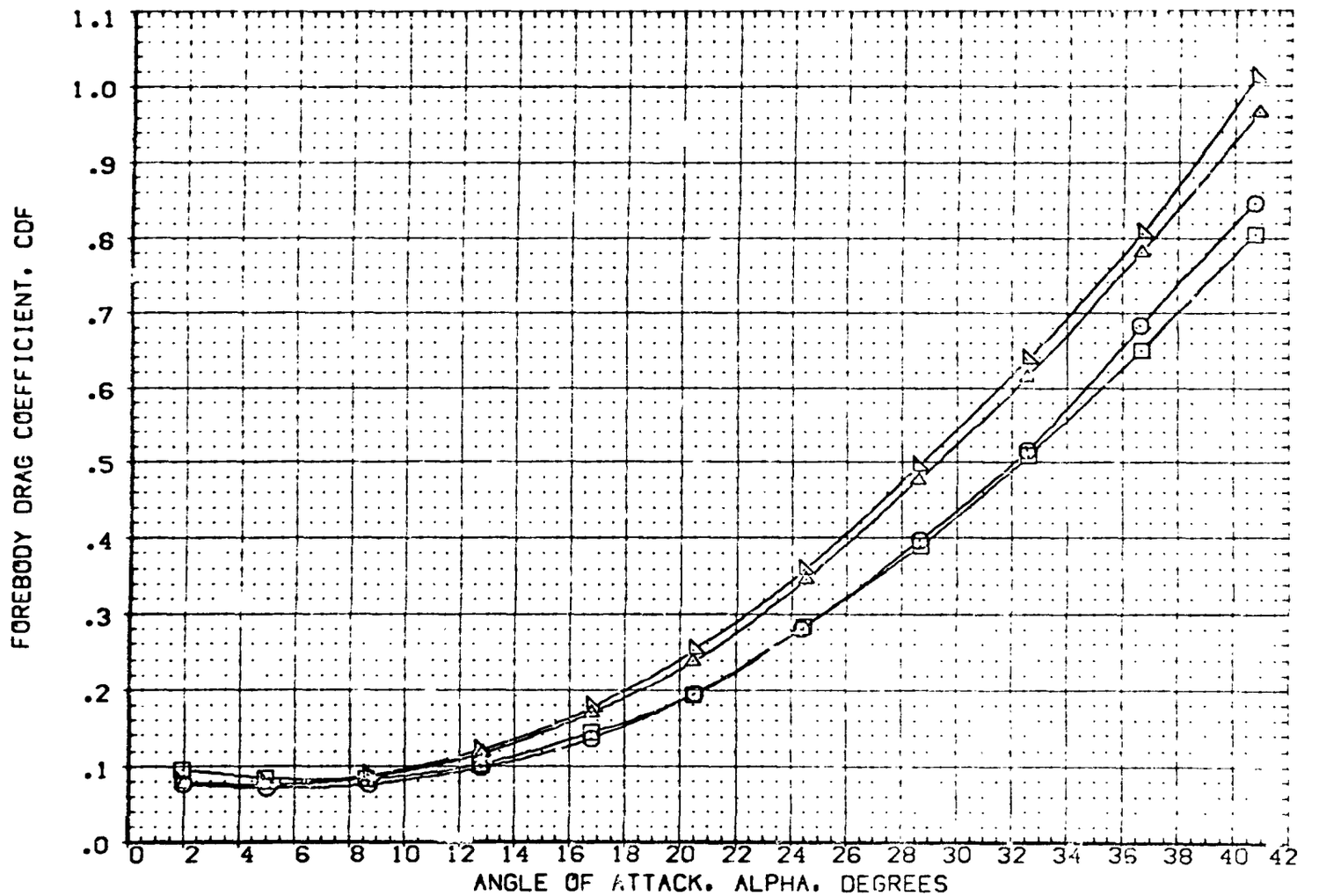


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB6009A)	▷	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

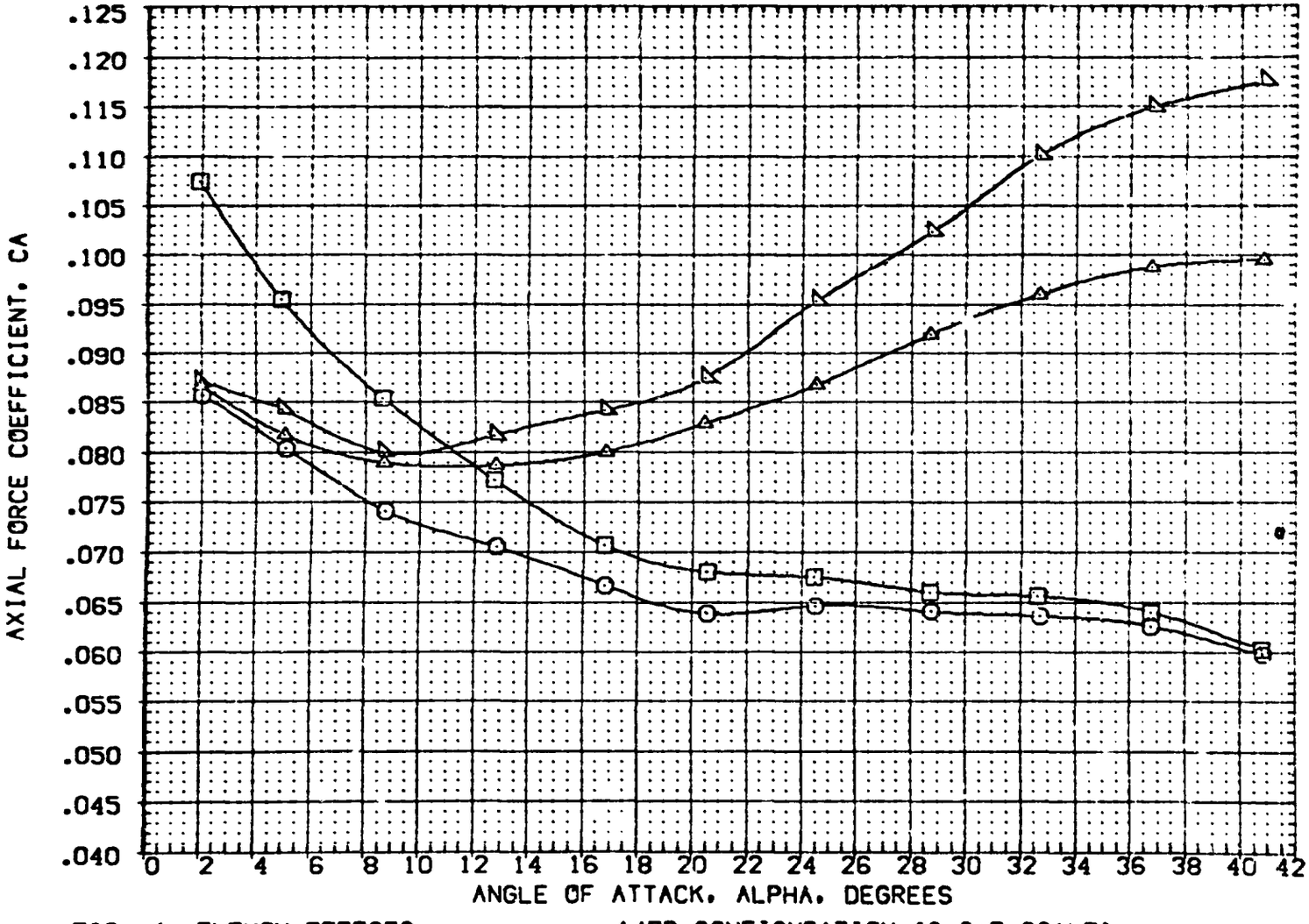


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	◺	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.6400	IN.
XMRP	1070.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

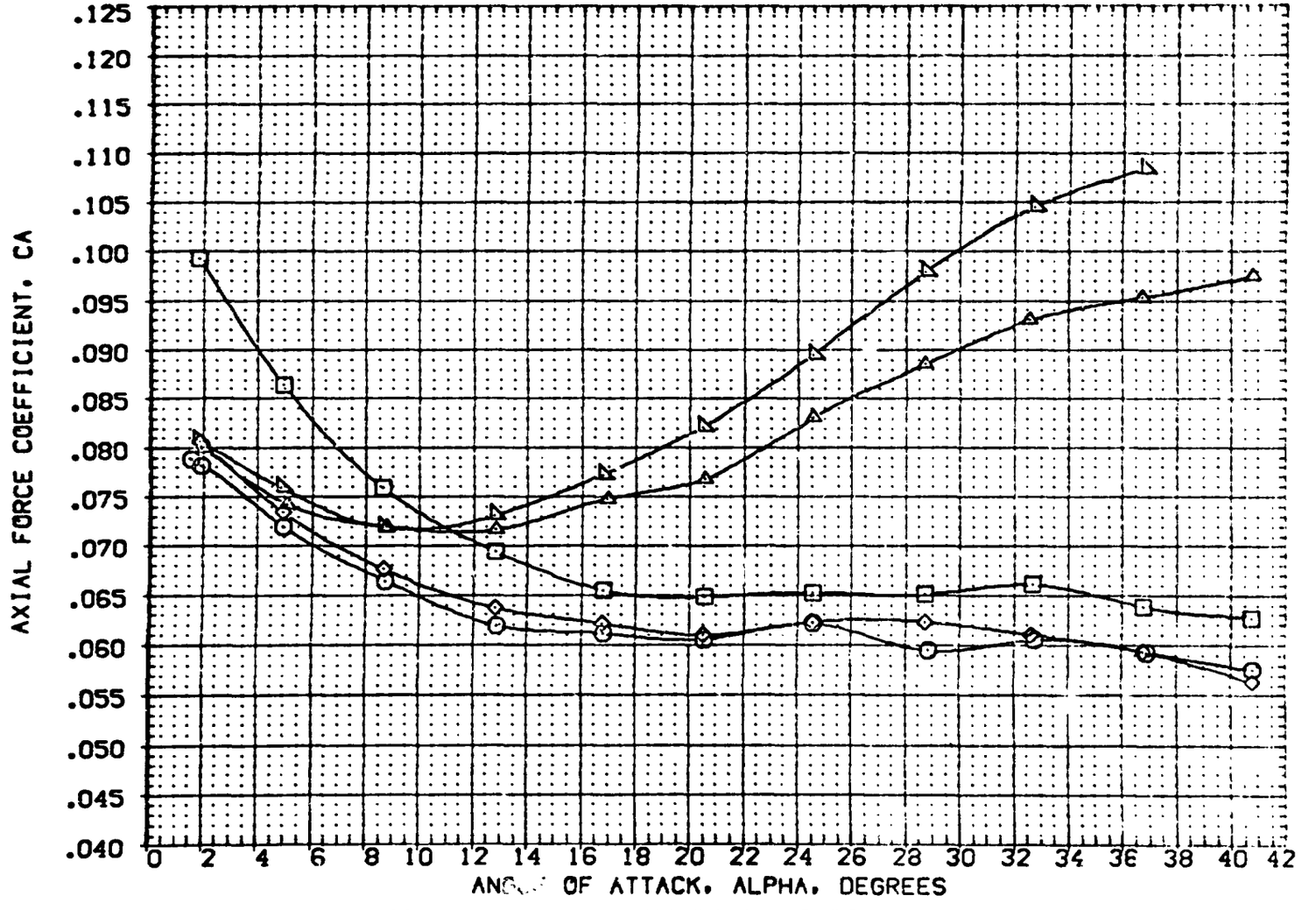


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB609A)	◁	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

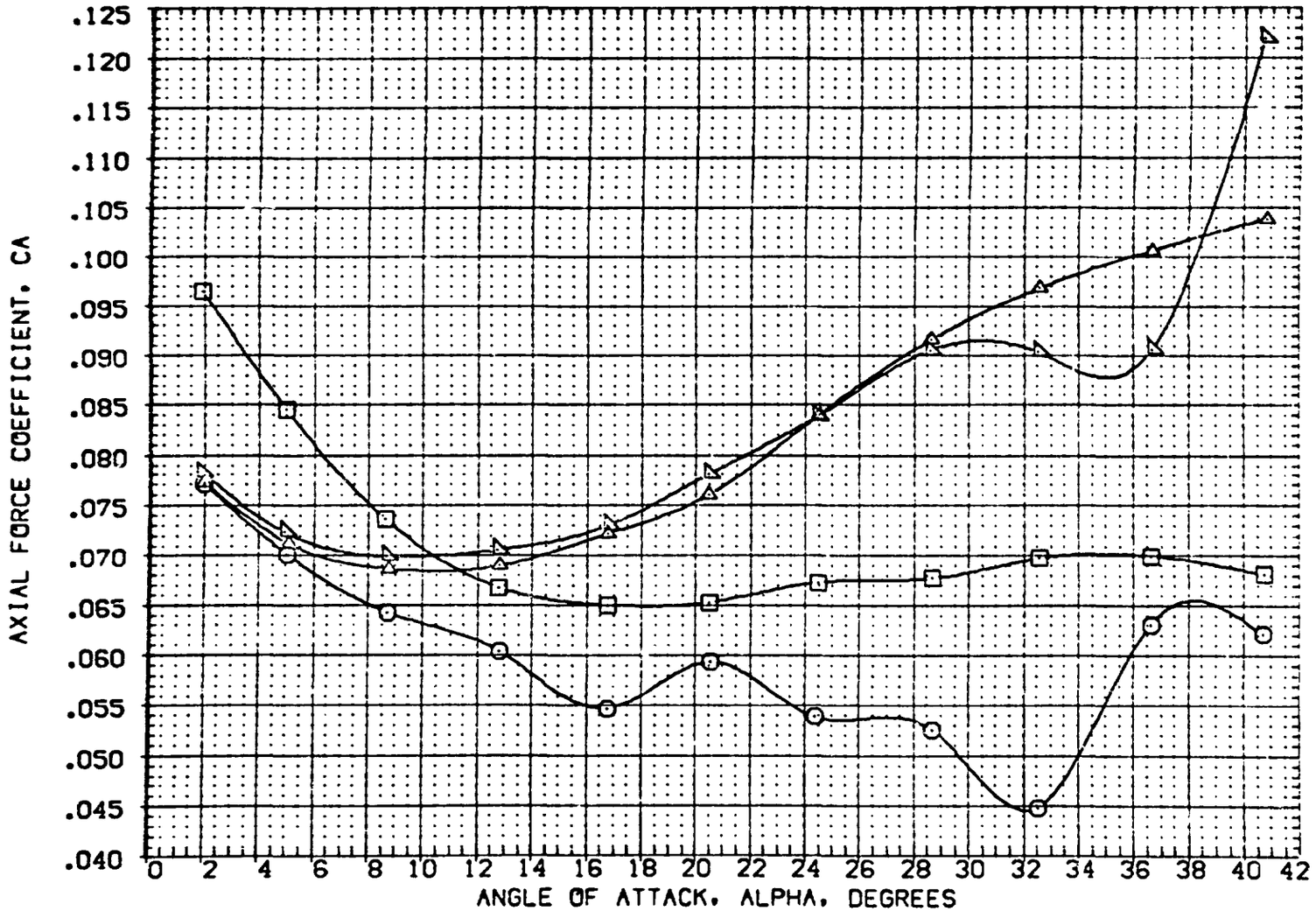


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 CA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 CA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 CA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB6009A)	▷	AMES3.5-168 CA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.3800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

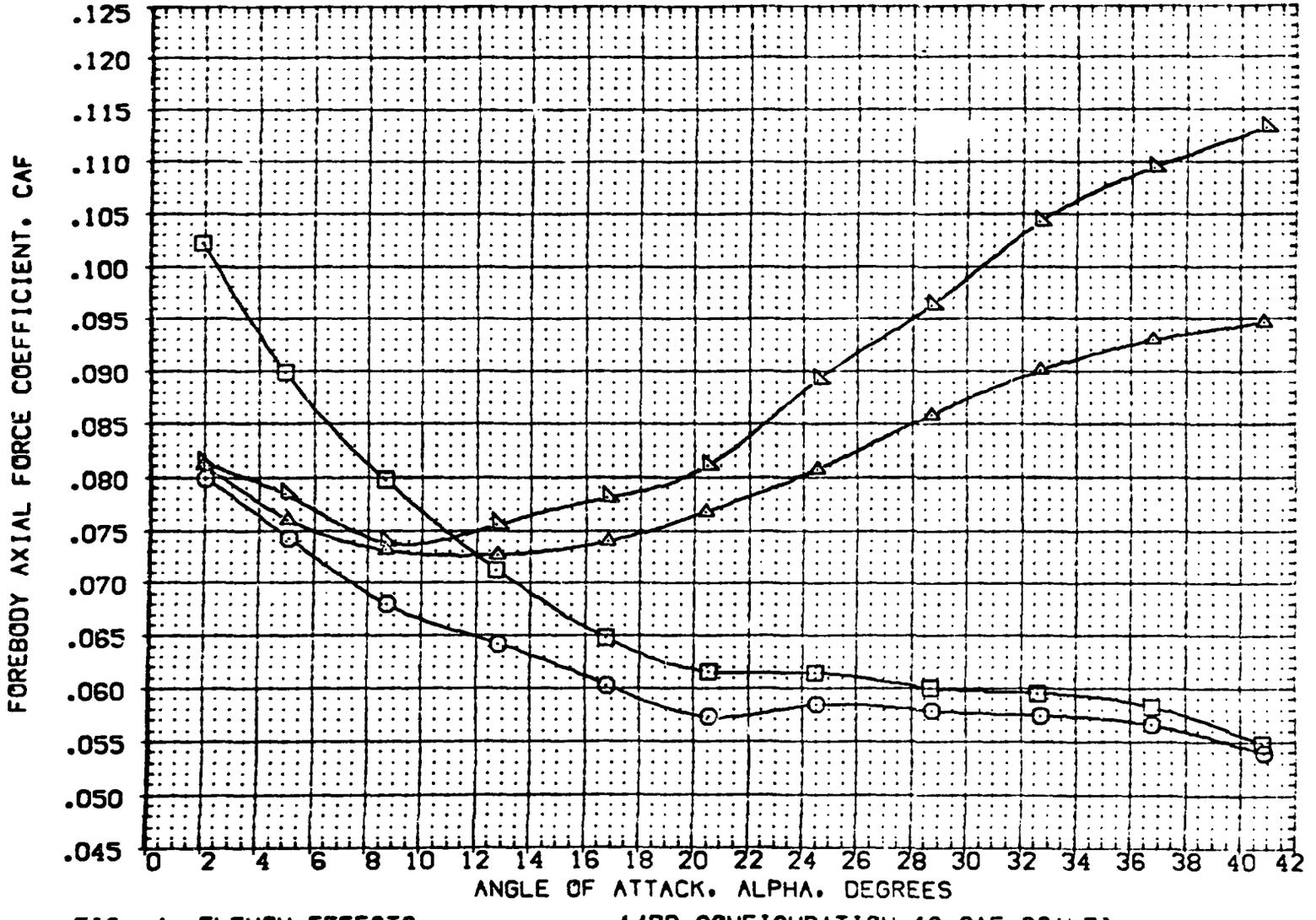


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	▽	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.6800	IN.
XMRP	1076.1800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

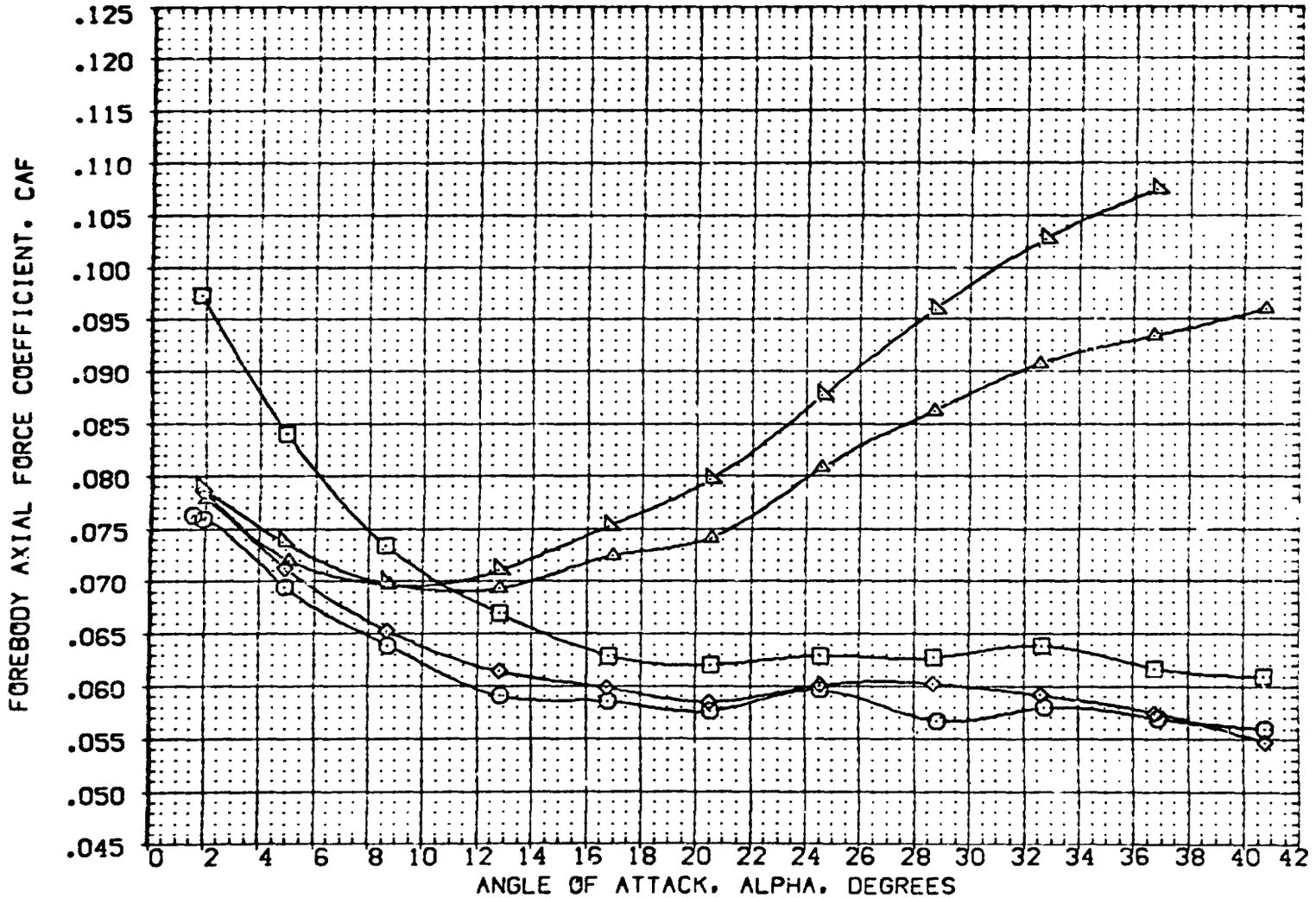


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	▷	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6300	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

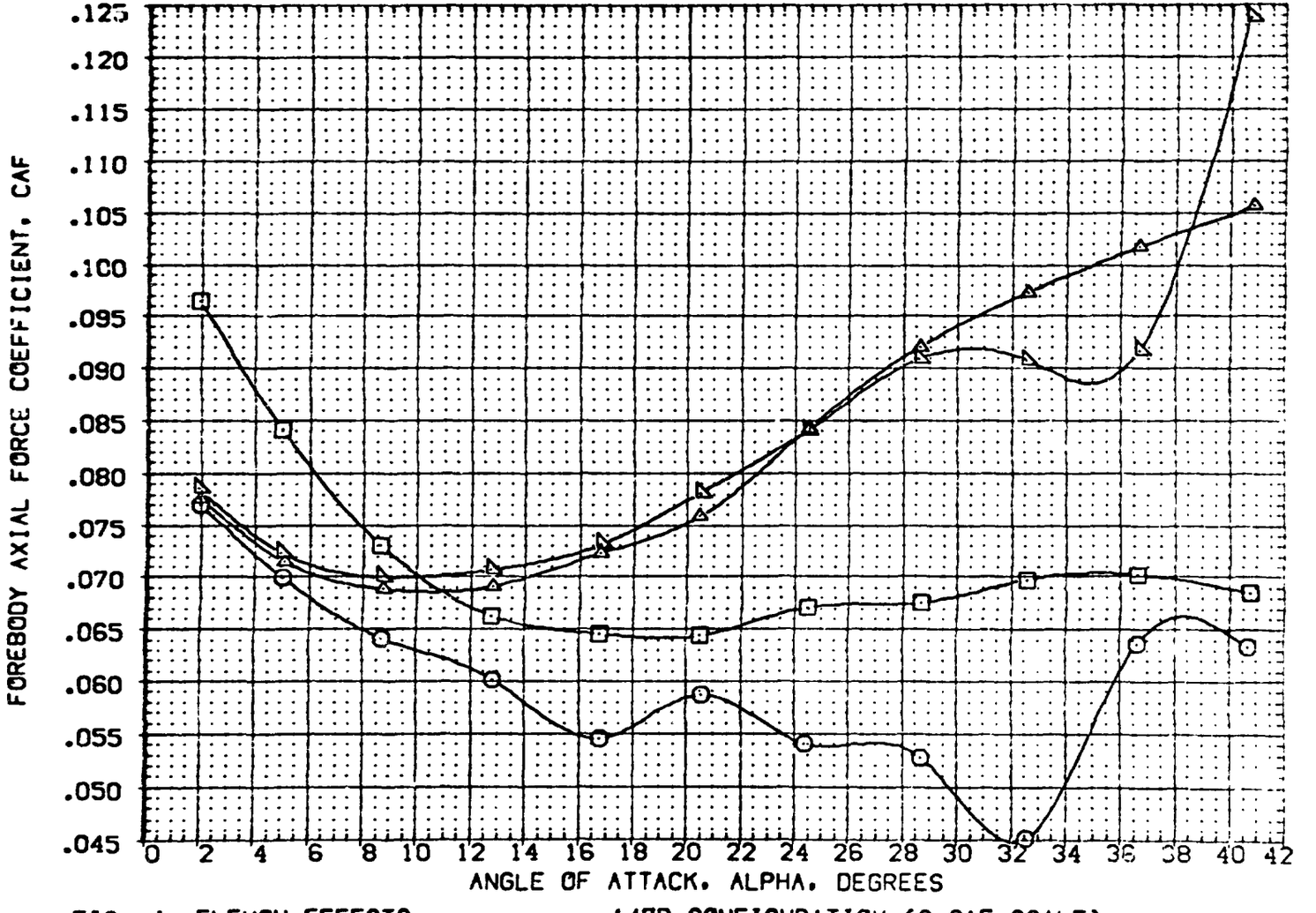


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
[CB6001]		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
[CB6003]		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
[CB6004]		DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
[CB6005]		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
[CB6009A]		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.8300	IN.
XMRP	1076.4900	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

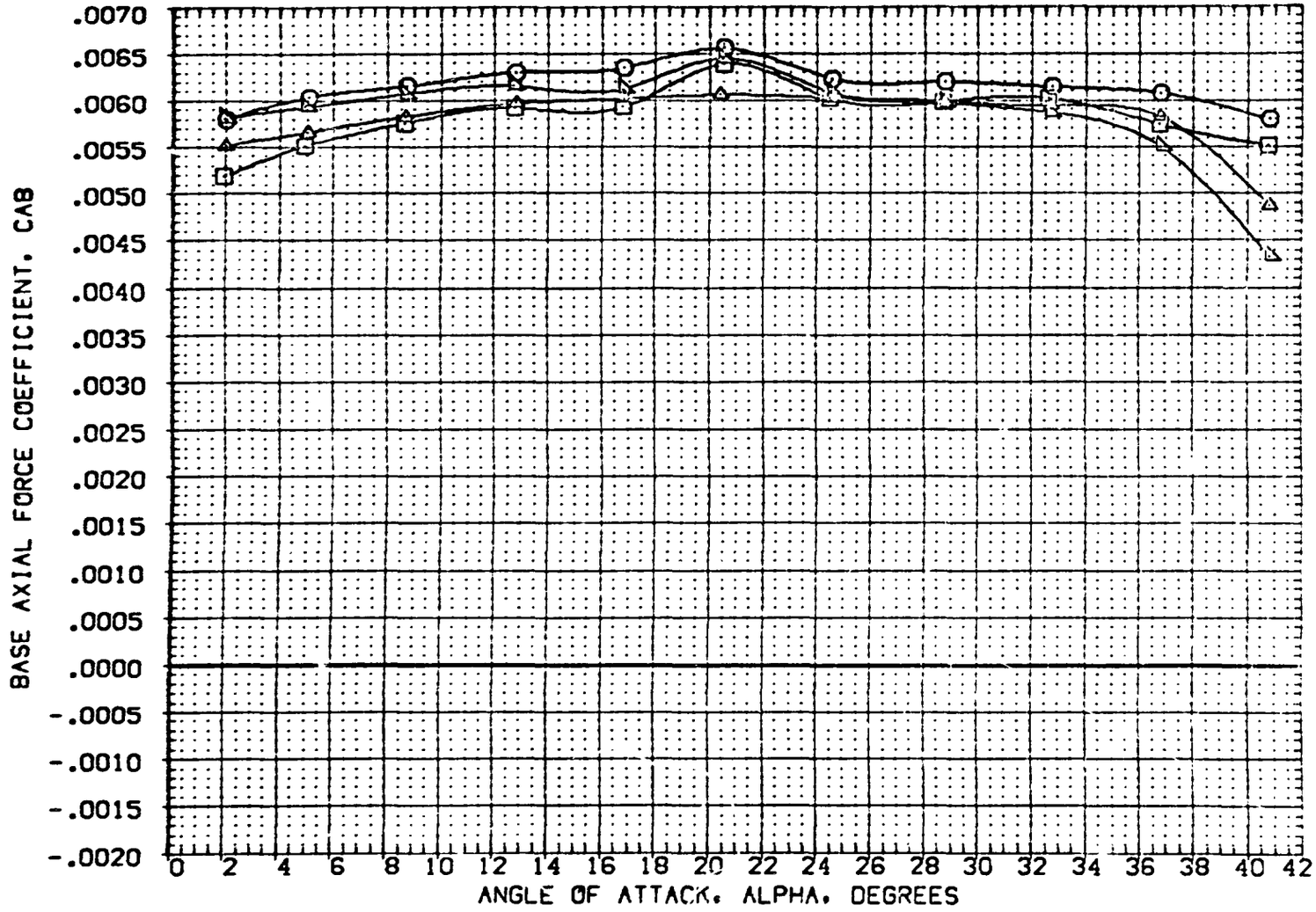


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(CB6005)	⋈	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	△	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	4690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.6800	IN.
XMRP	1078.4200	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

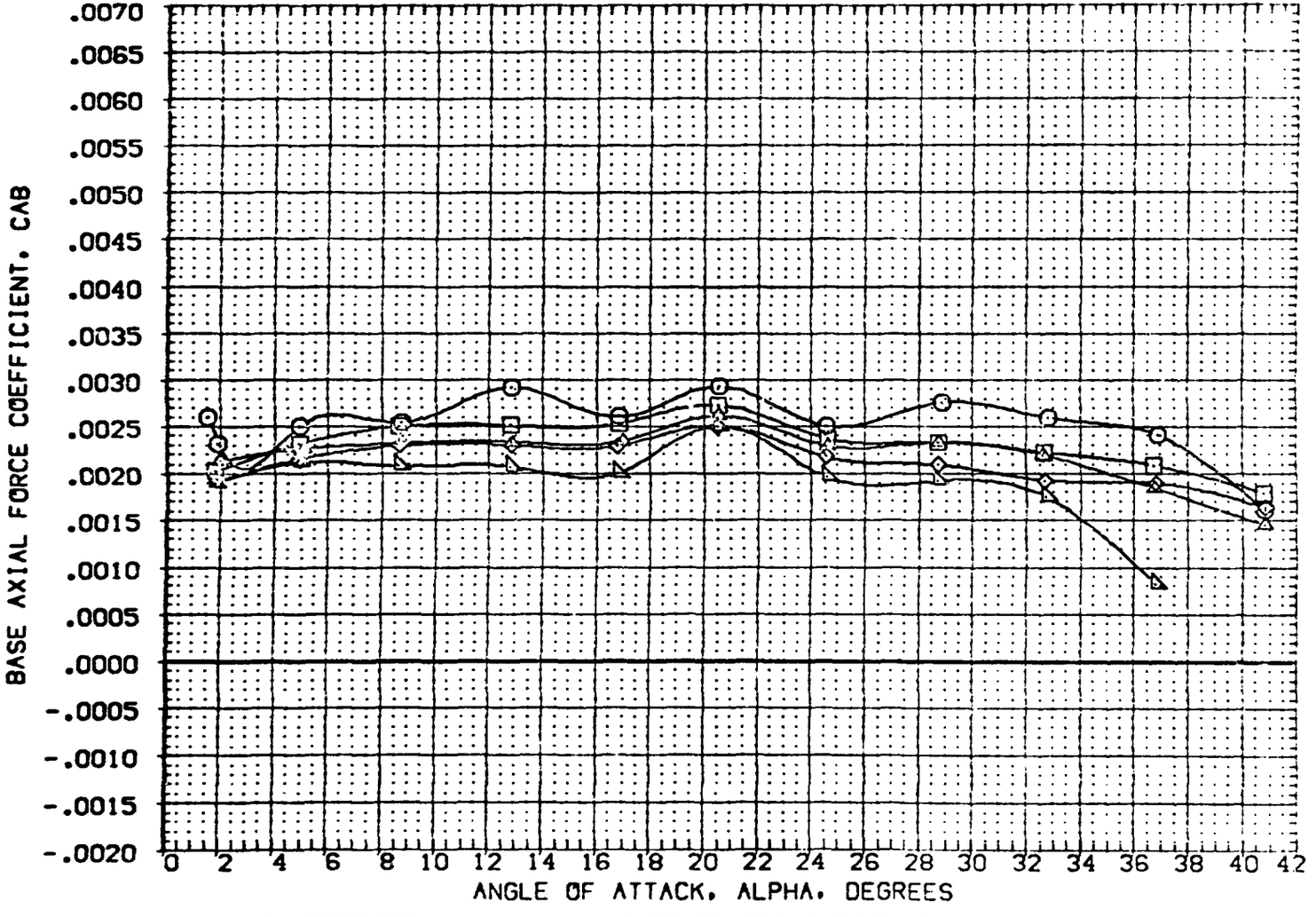


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB609A)	▽	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

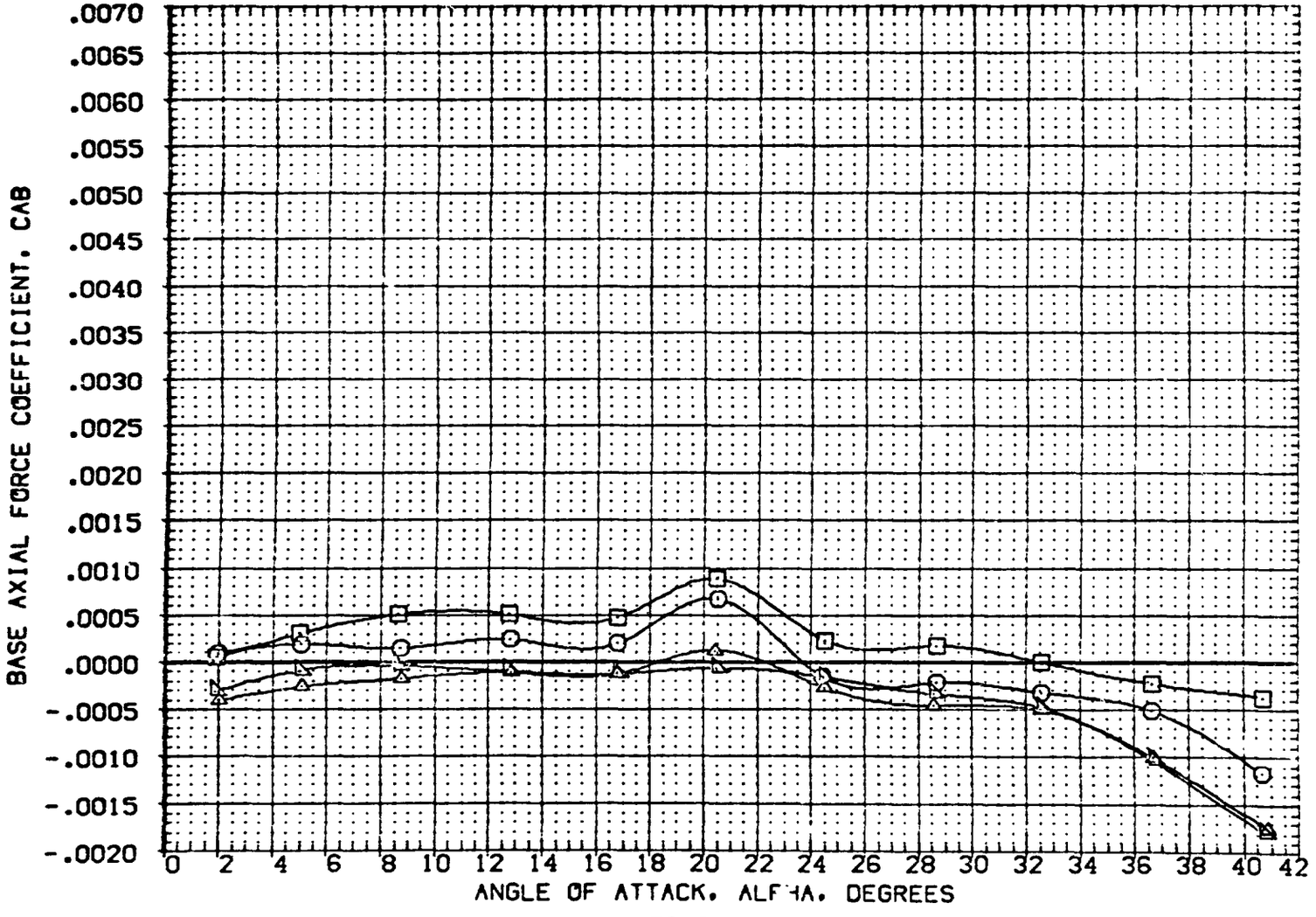


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB609A)	◺	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.5900	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

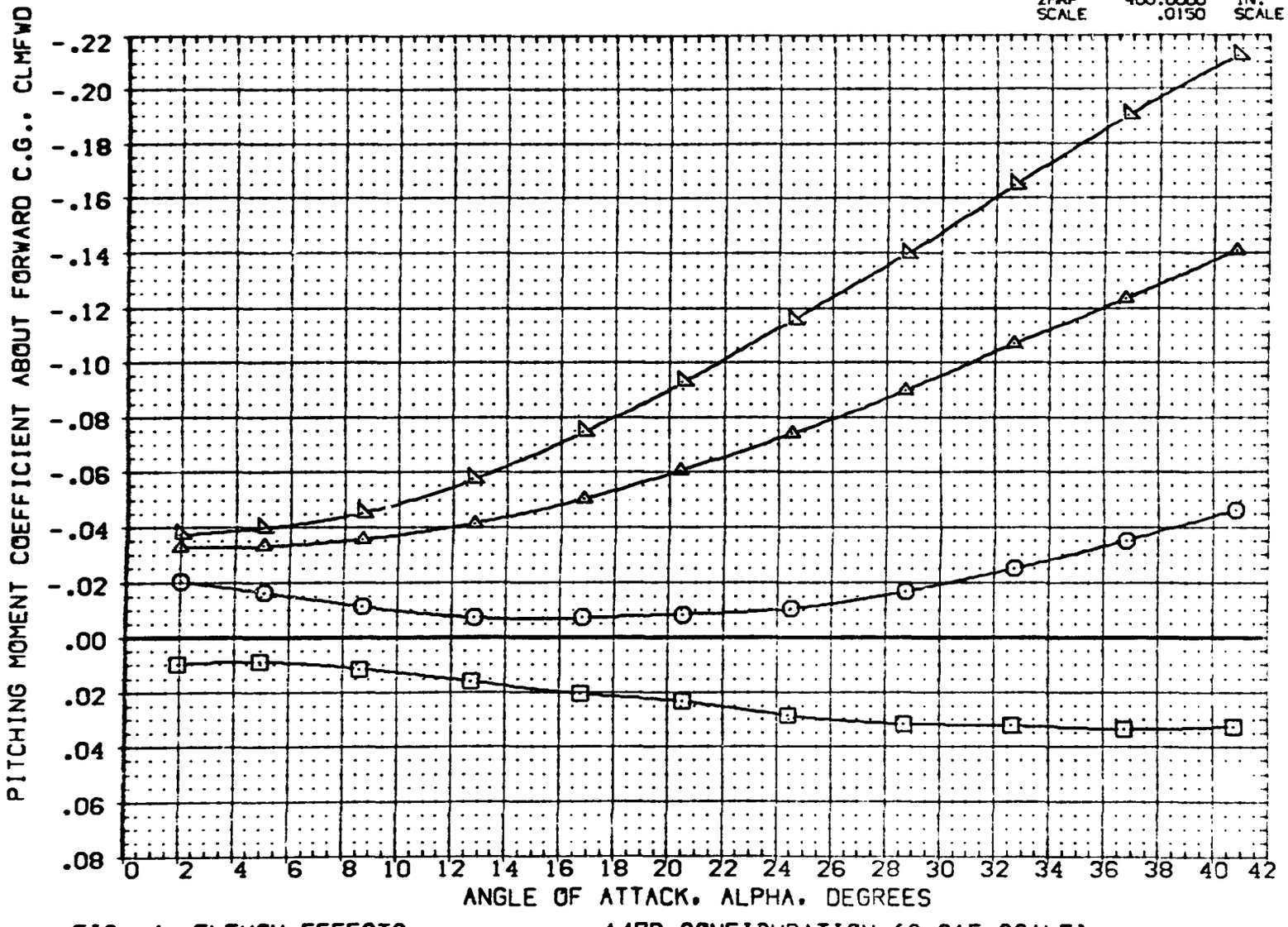


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB6009A)	◺	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

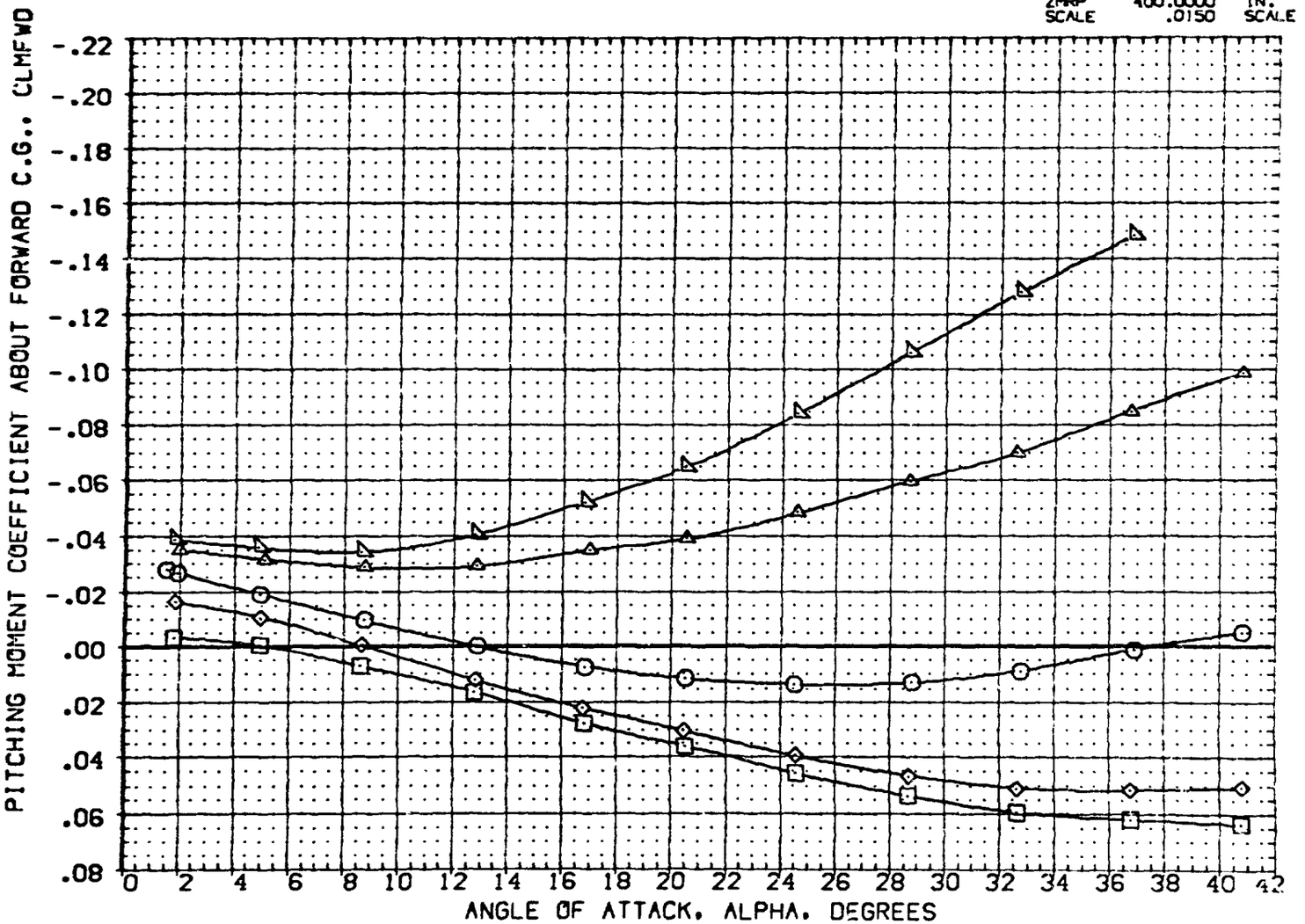


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	⋈	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB609A)	△	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
CREF	474.6000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

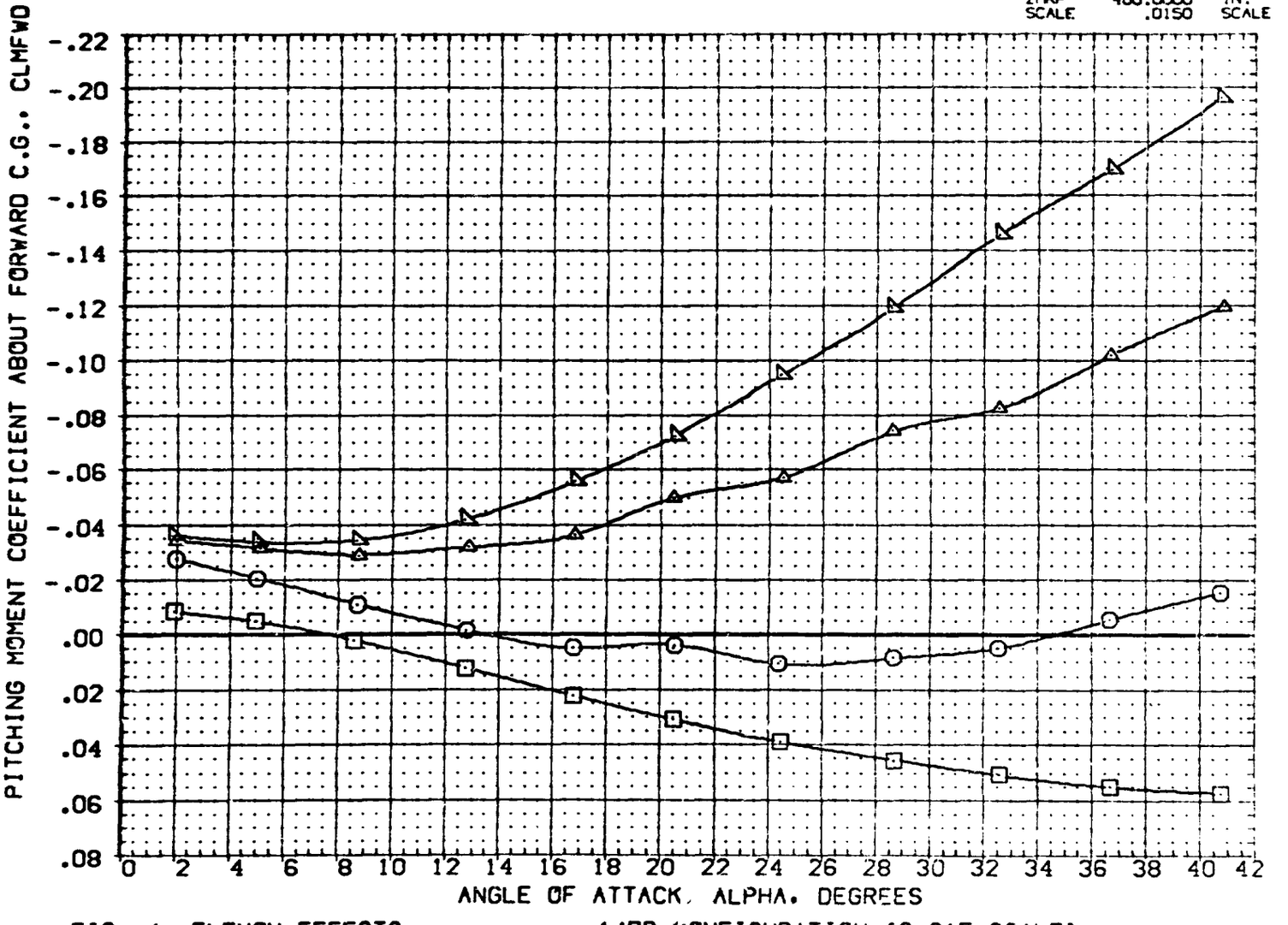


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB6C9A)	▷	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

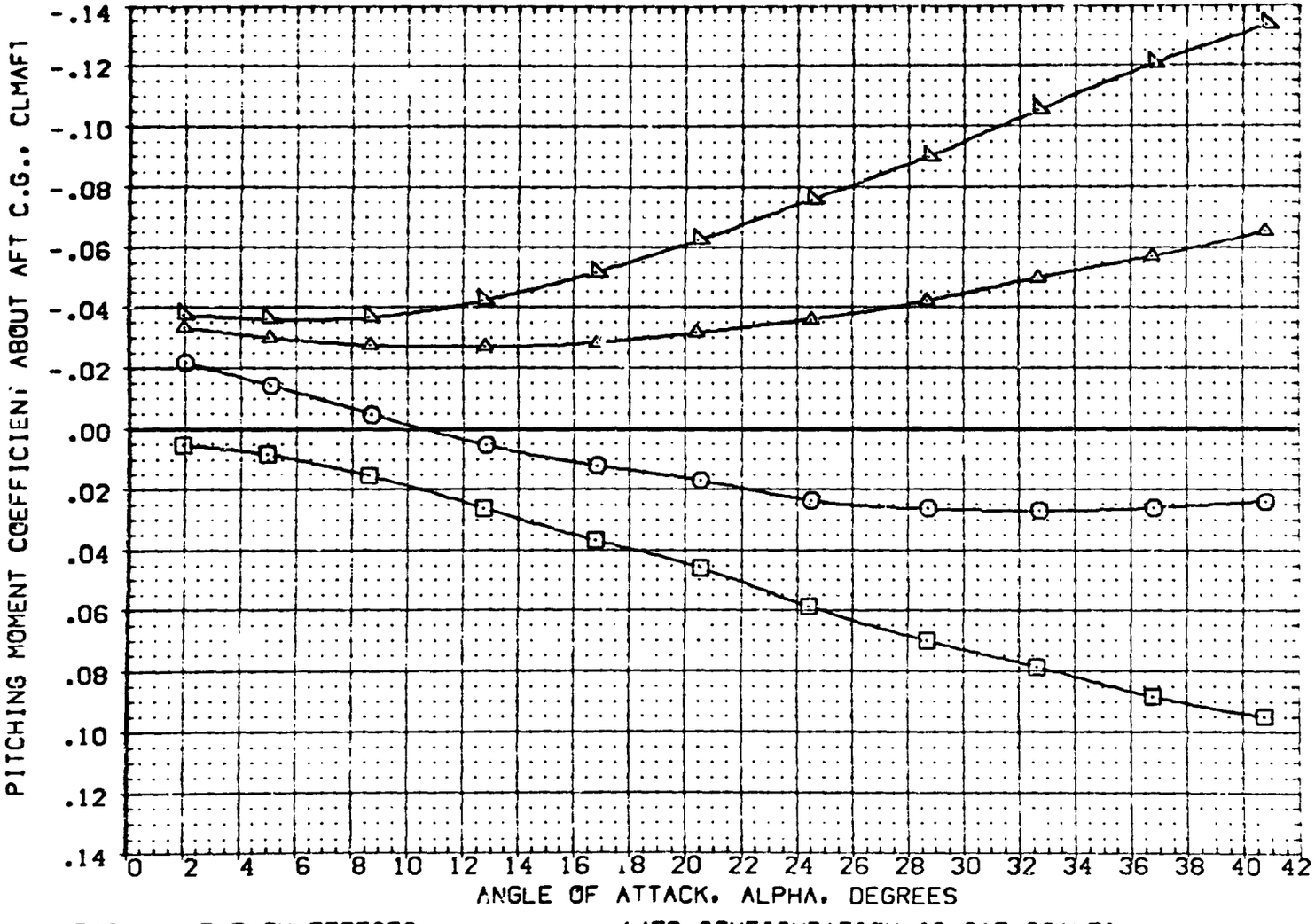


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	AMES3.5-168 DA23 B[illegible] C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	▽	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	93[illegible].6800	IN.
XMRP	10[illegible].4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

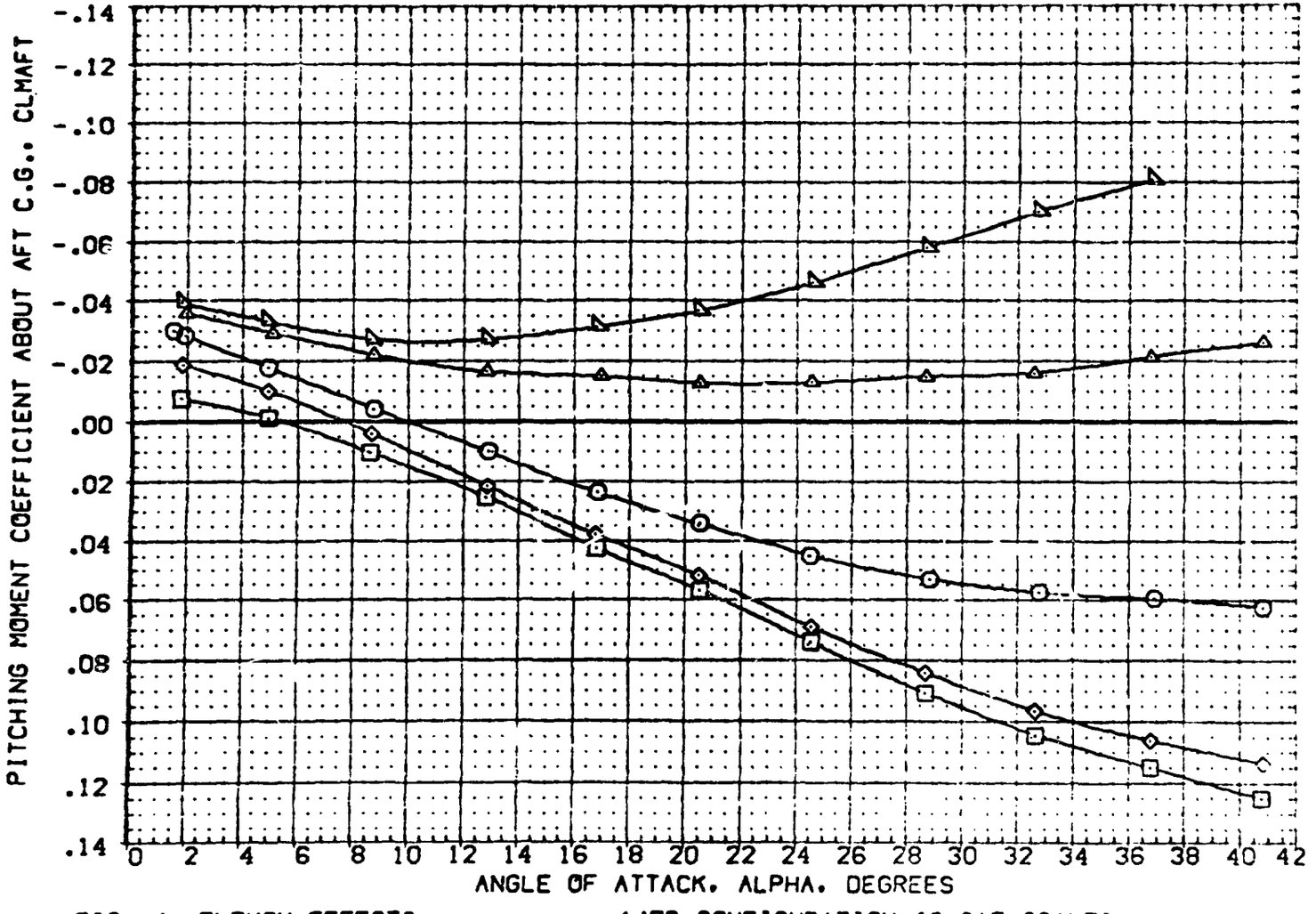


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)		DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB609A)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

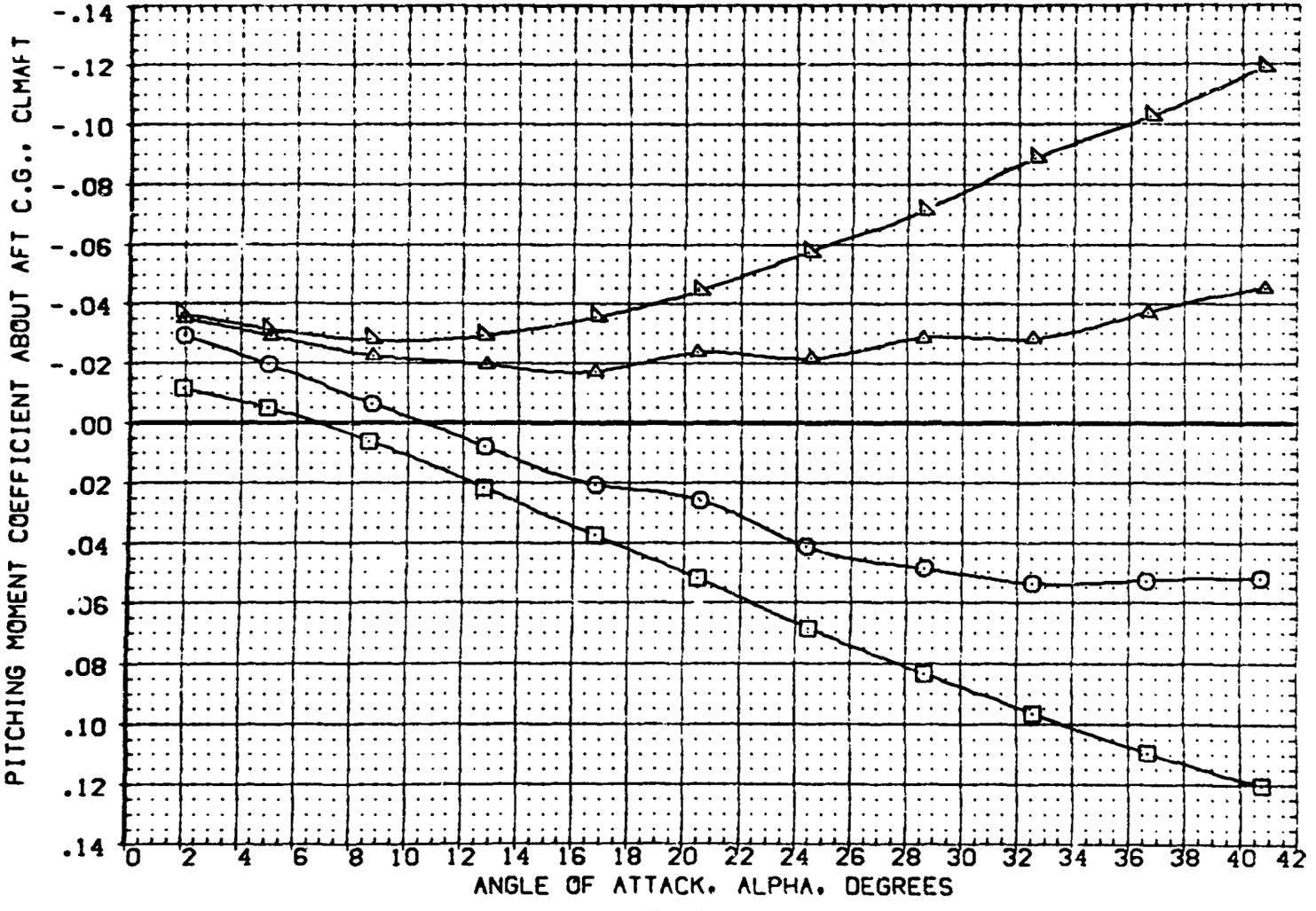


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	▷	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

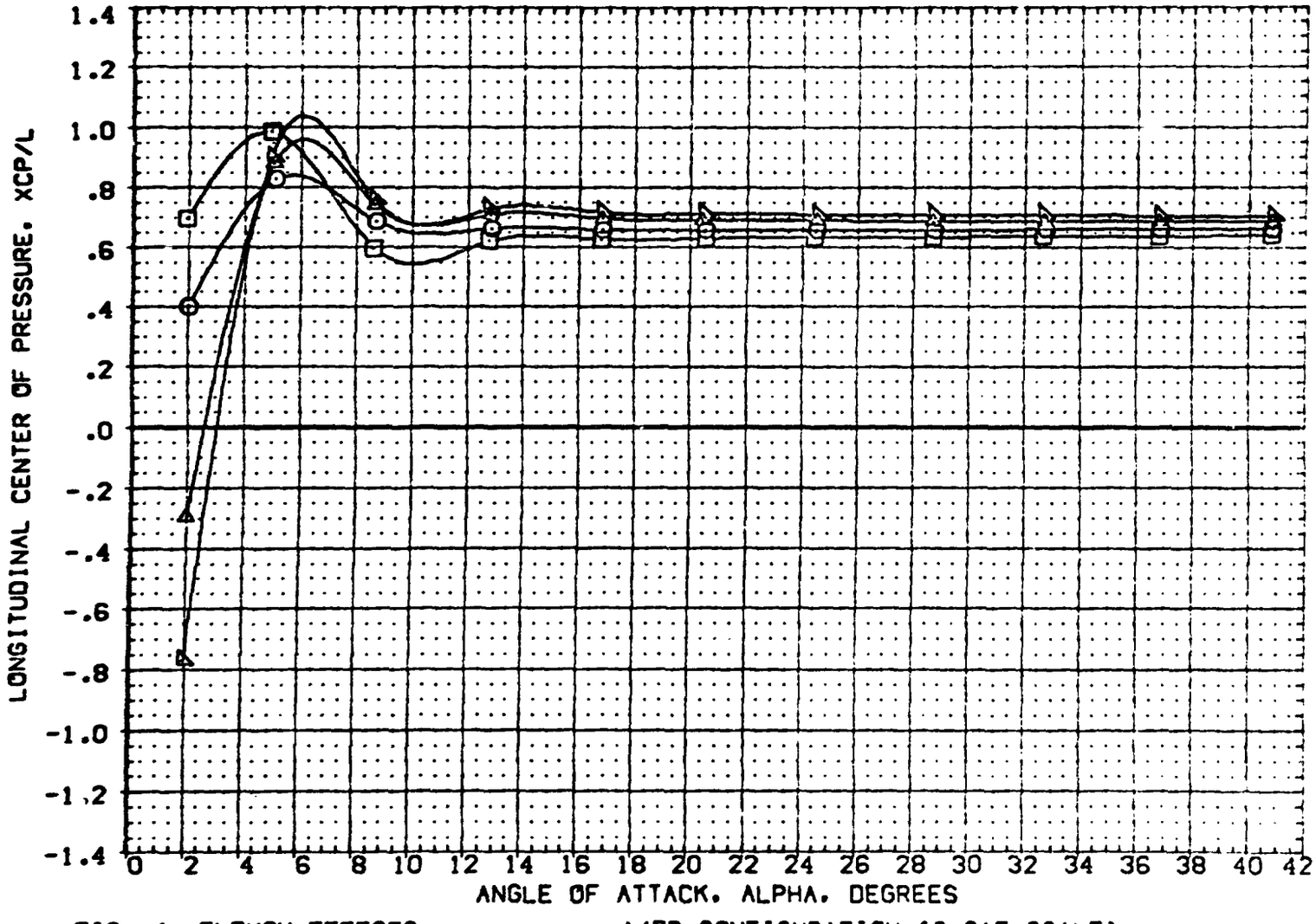


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(C86001)	○	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(C86003)	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(C86004)	◇	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000
(C86005)	△	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(C86009A)	◺	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.1800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

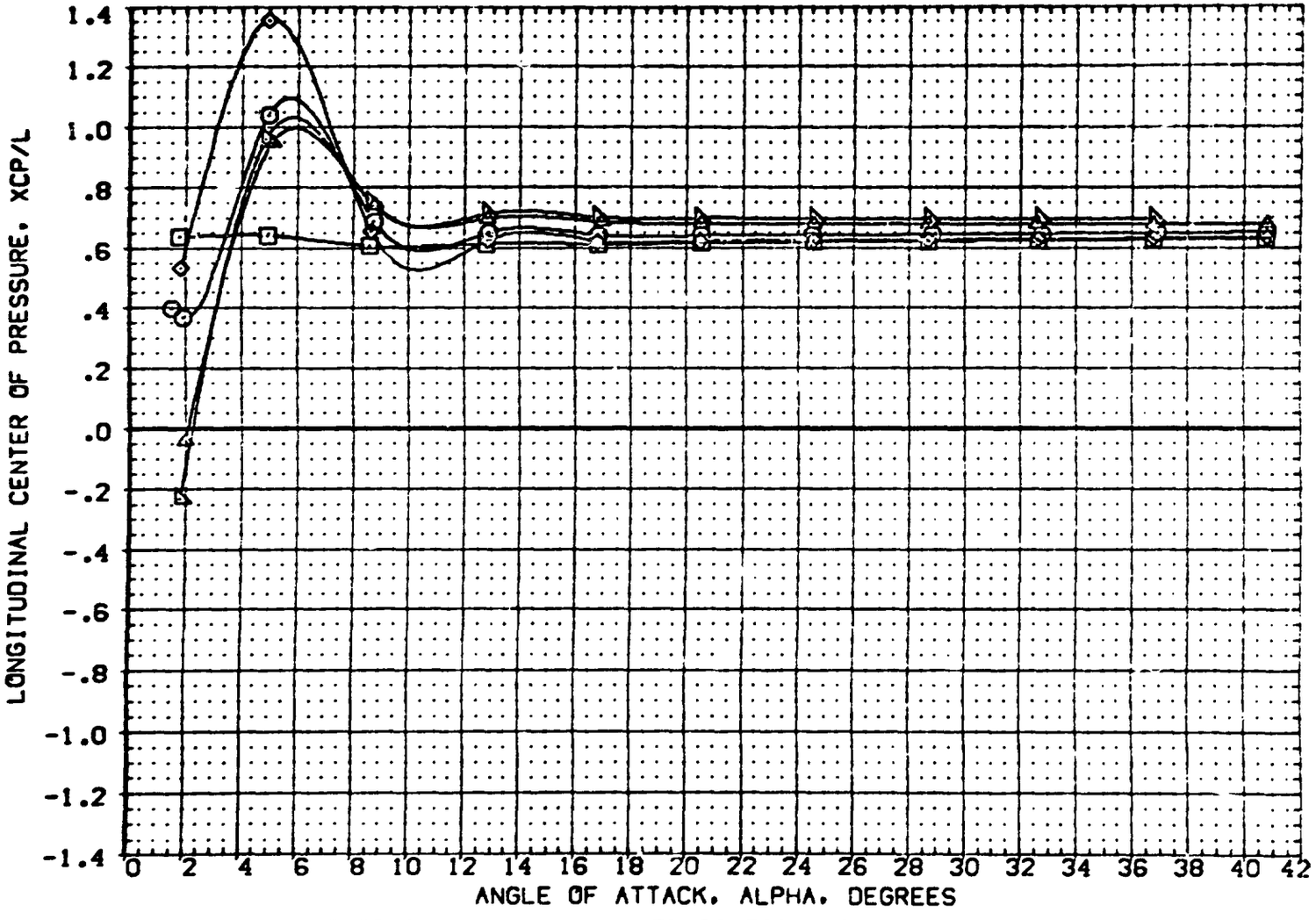


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)		DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB6009A)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	596.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

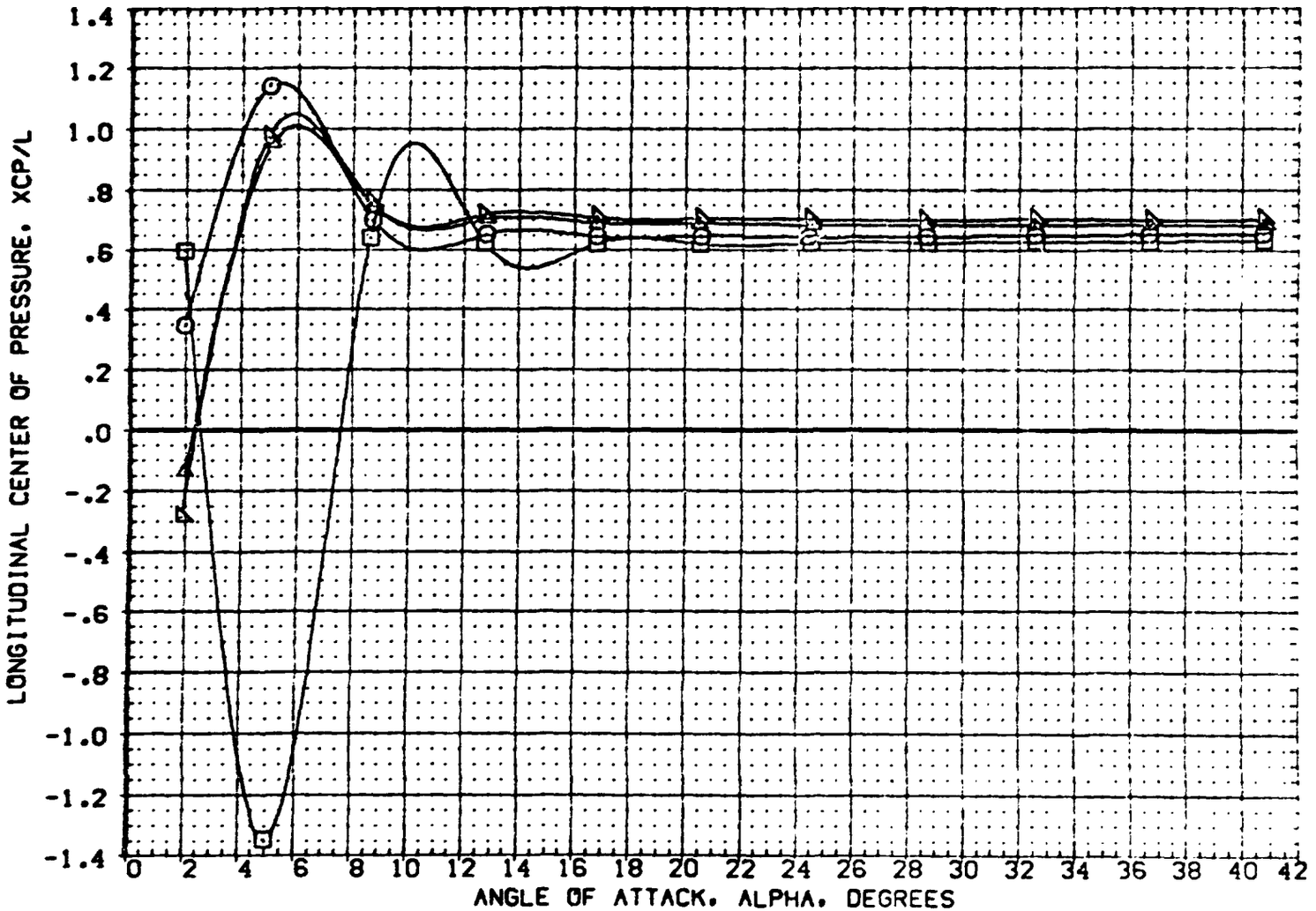


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(B06001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(B06003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(B06004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(B06005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(B06009A)	◺	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

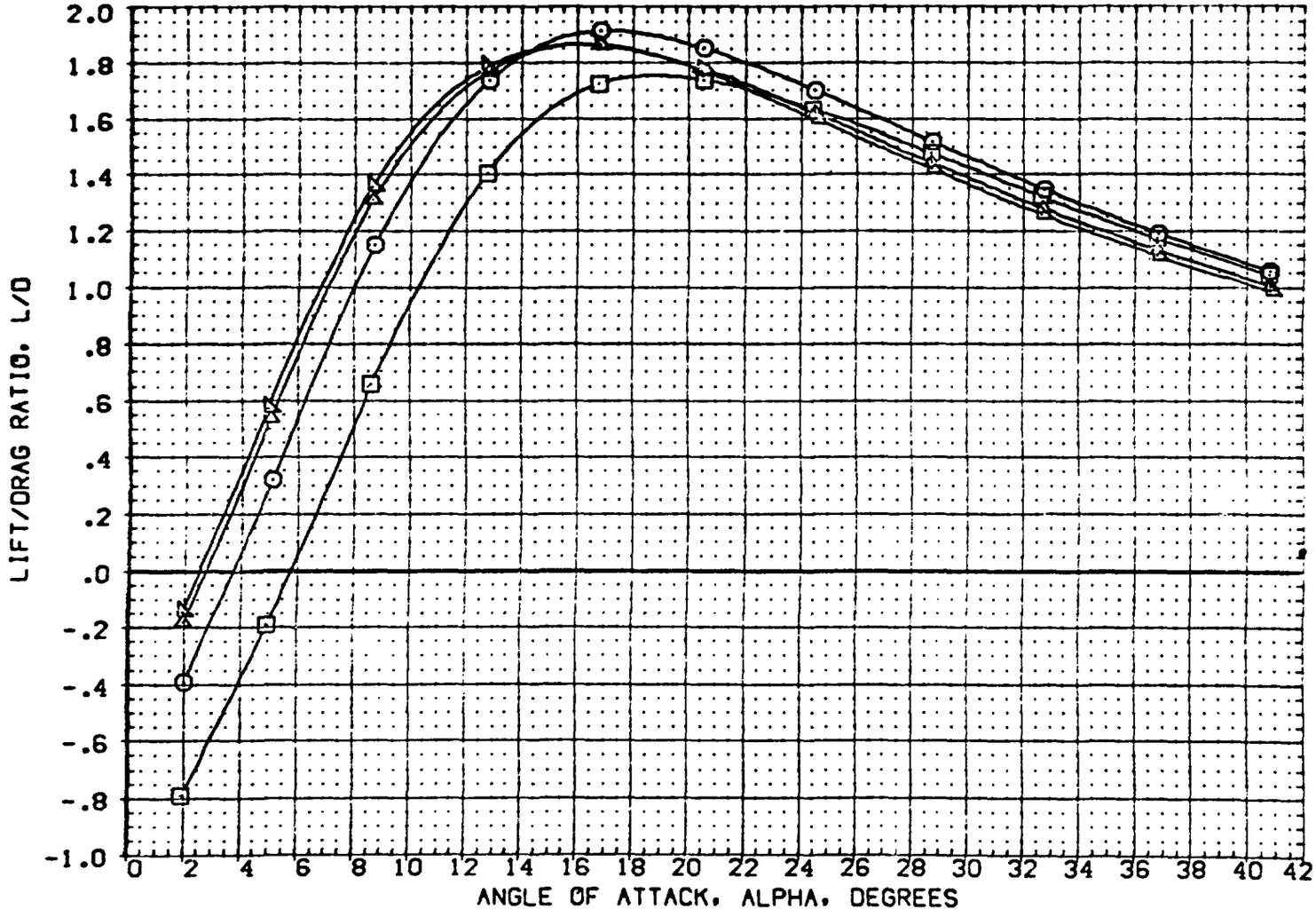


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(BB6001)	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(BB6003)	◇	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(BB6004)	◇	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(BB6005)	△	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(BB609A)	△	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

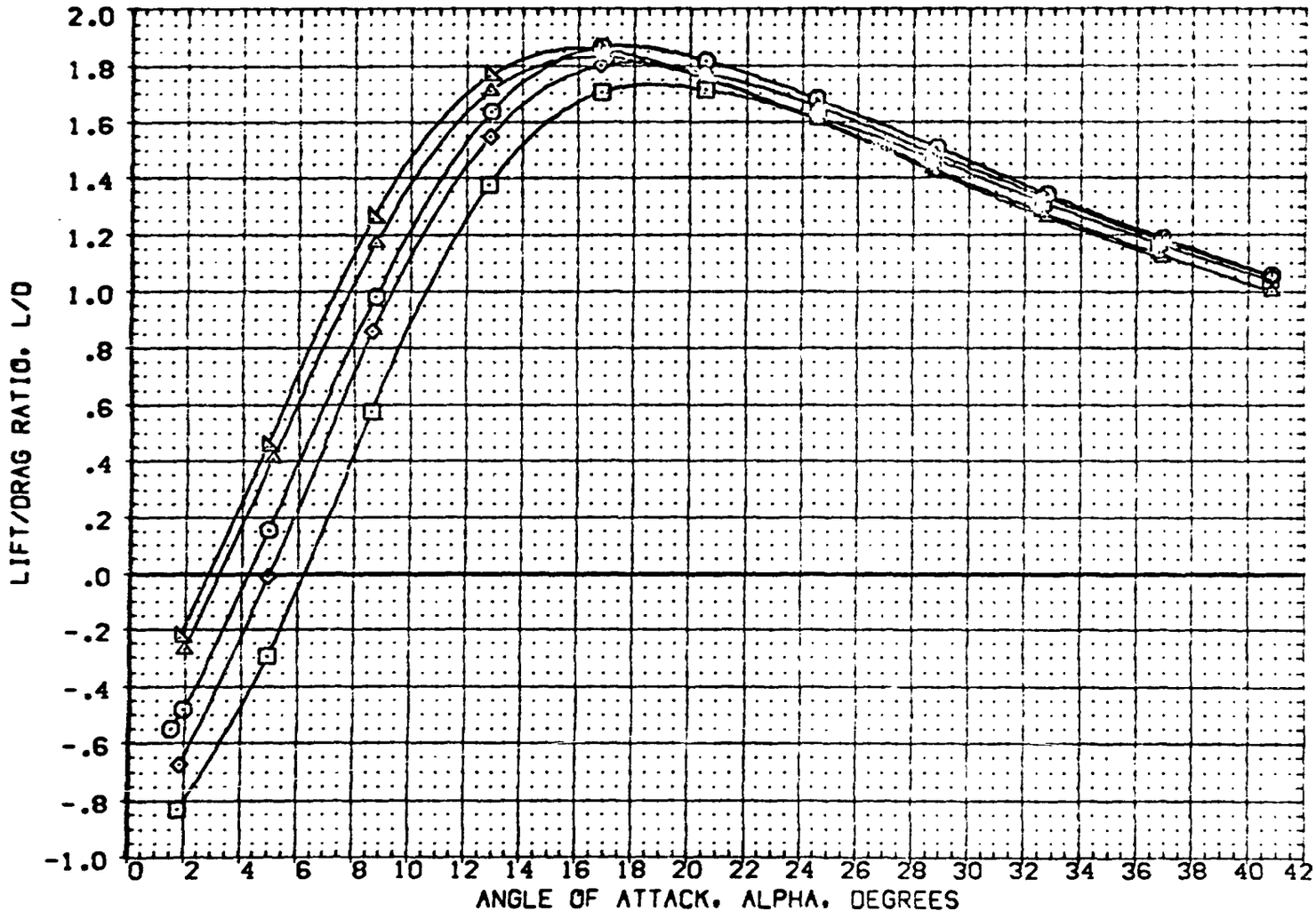


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(B86001)	○	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(B86003)	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(B86004)	⊠	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(B86005)	△	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(B8609A)	◺	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

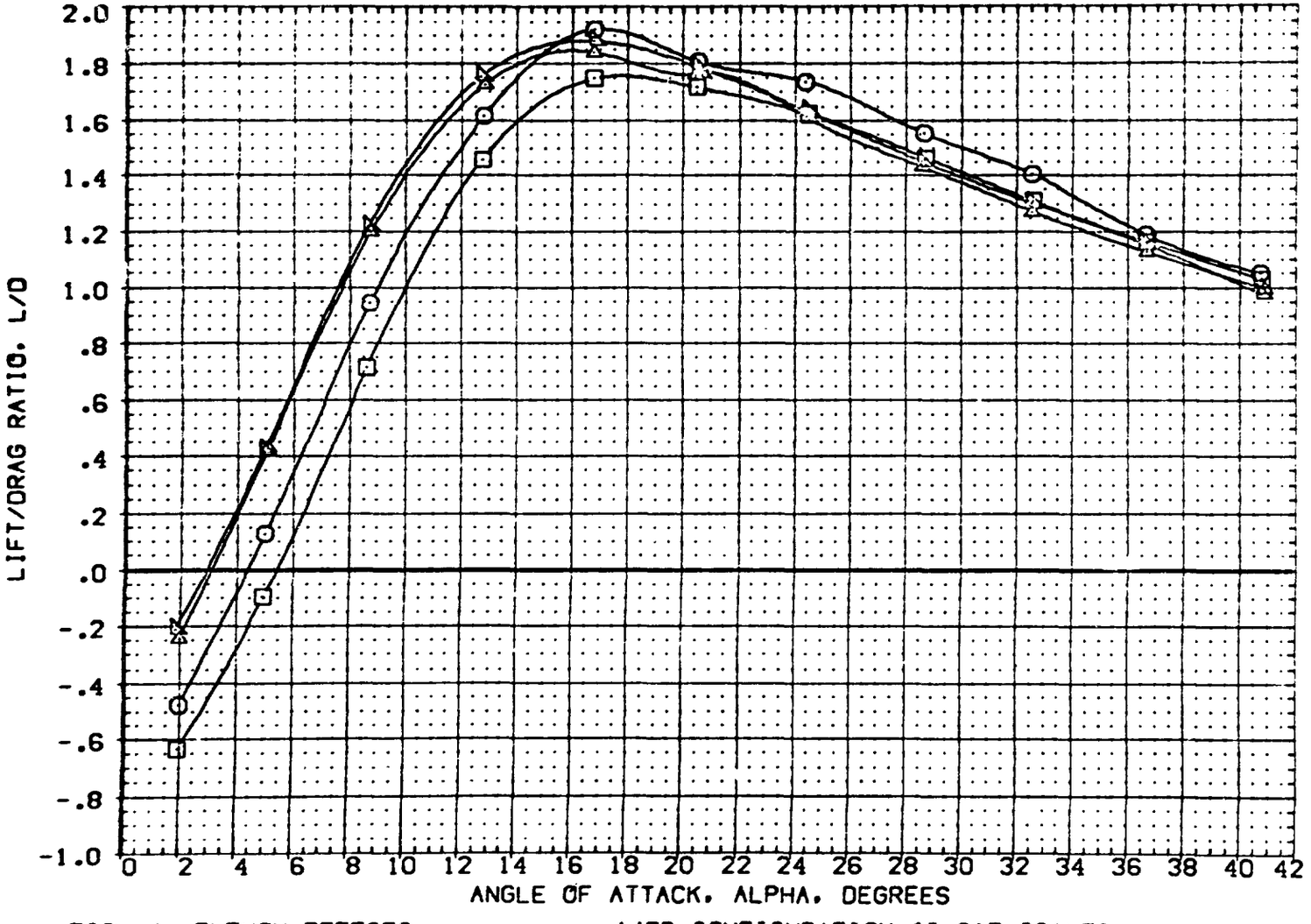


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPLBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB60C4)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	▽	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

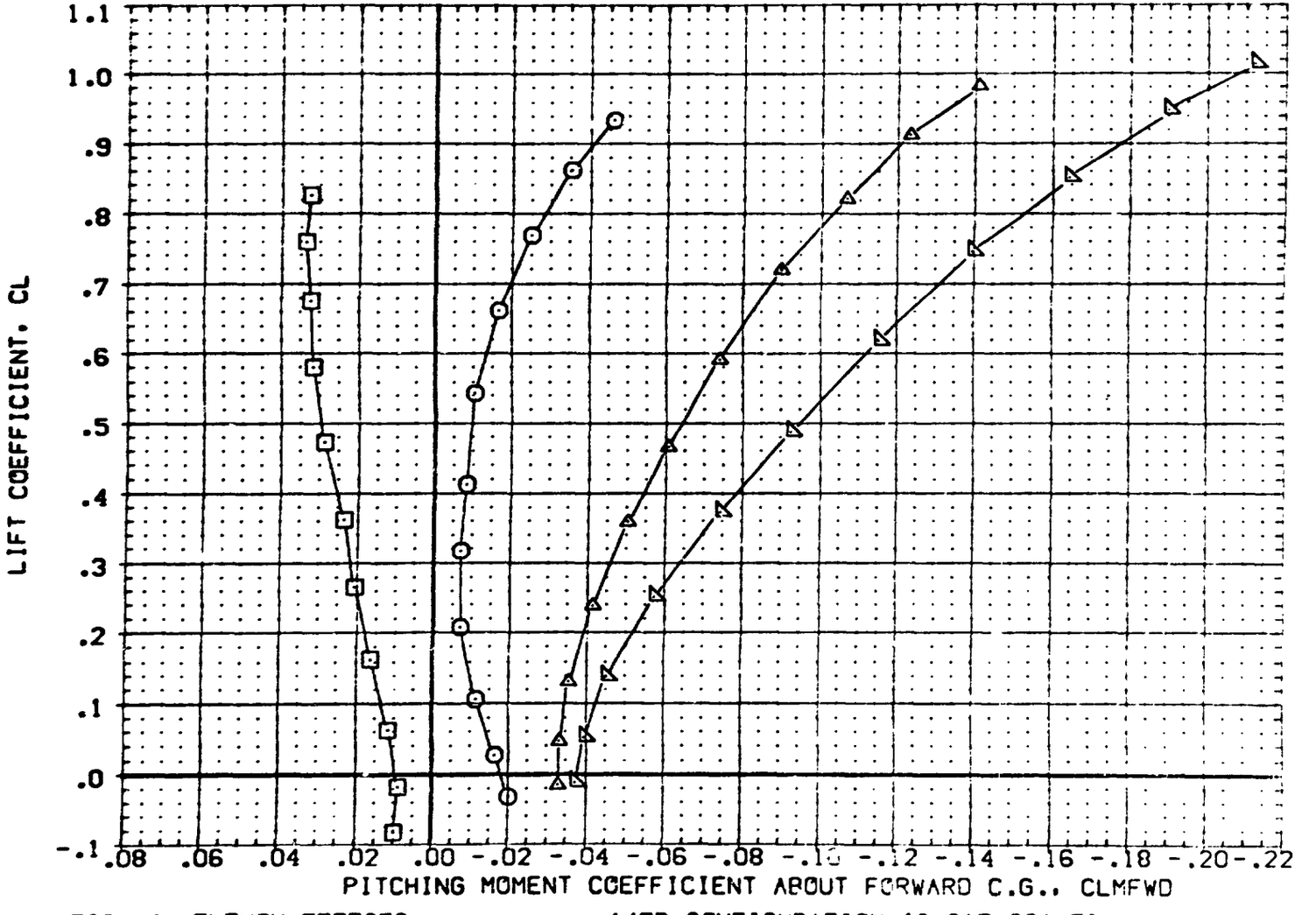


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)	◇	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB609A)	▷	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

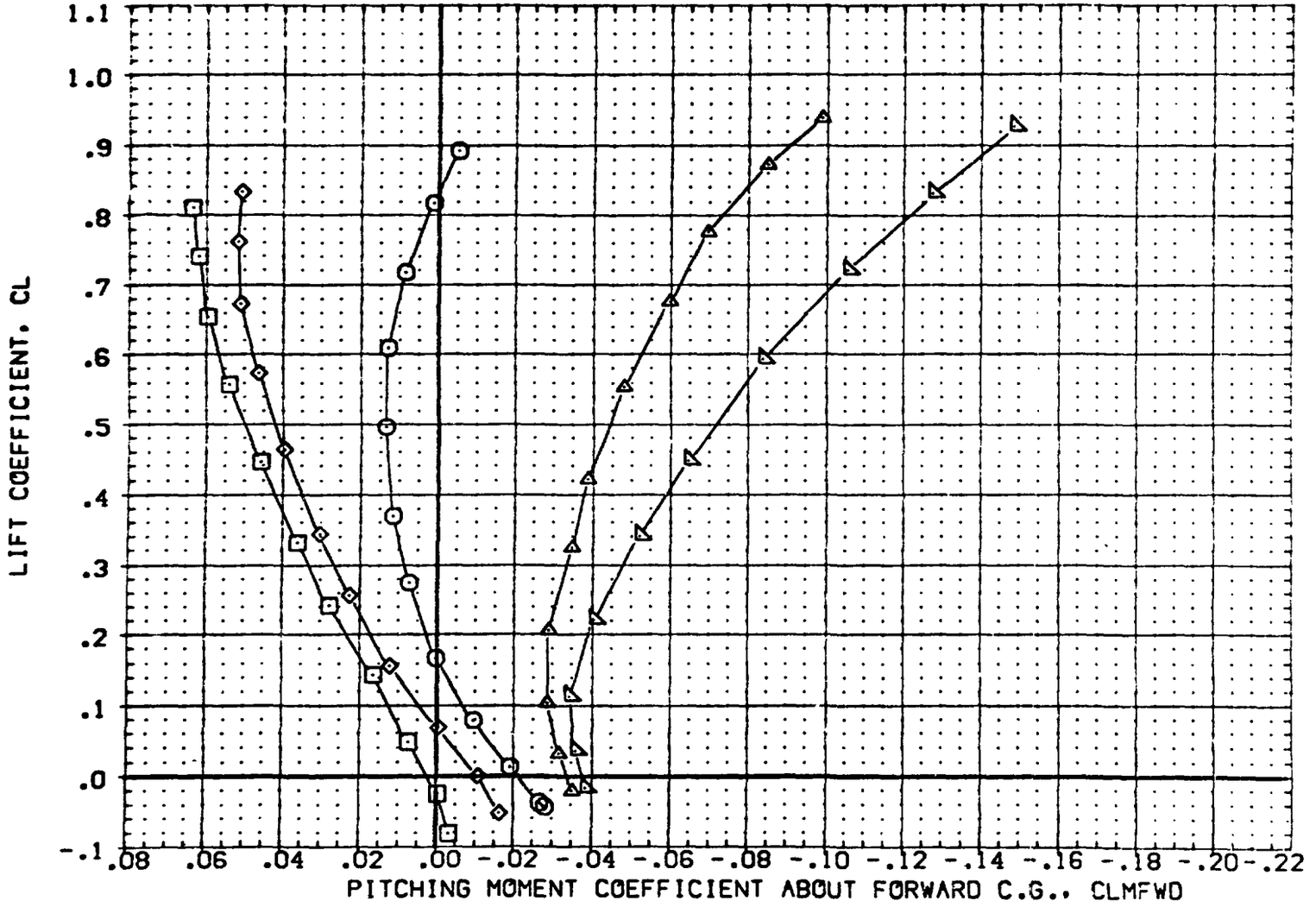


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)		DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB609A)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.5600	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

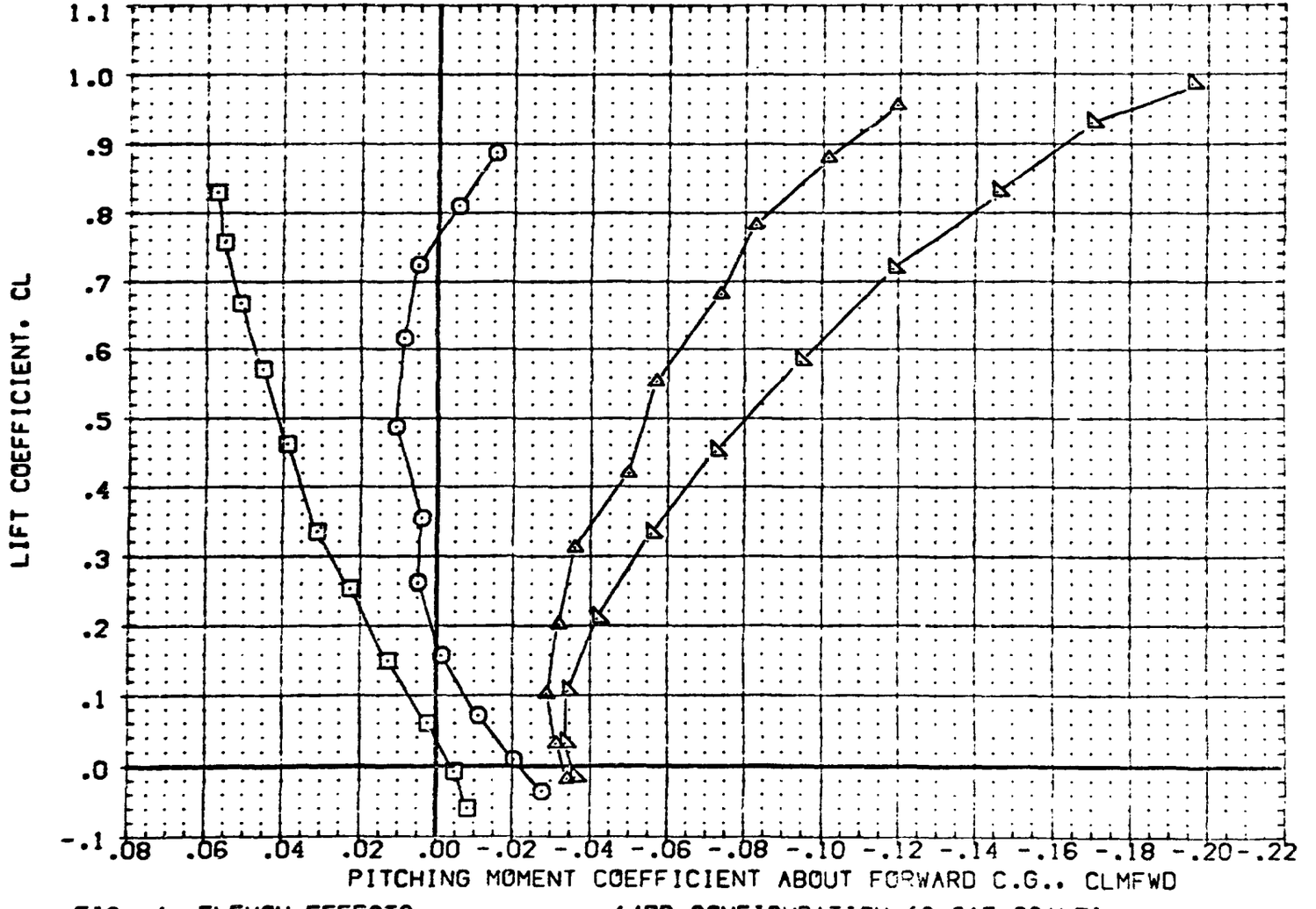


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(CB60C1)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB60C3)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB60C4)		DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB60C5)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB60C9A)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

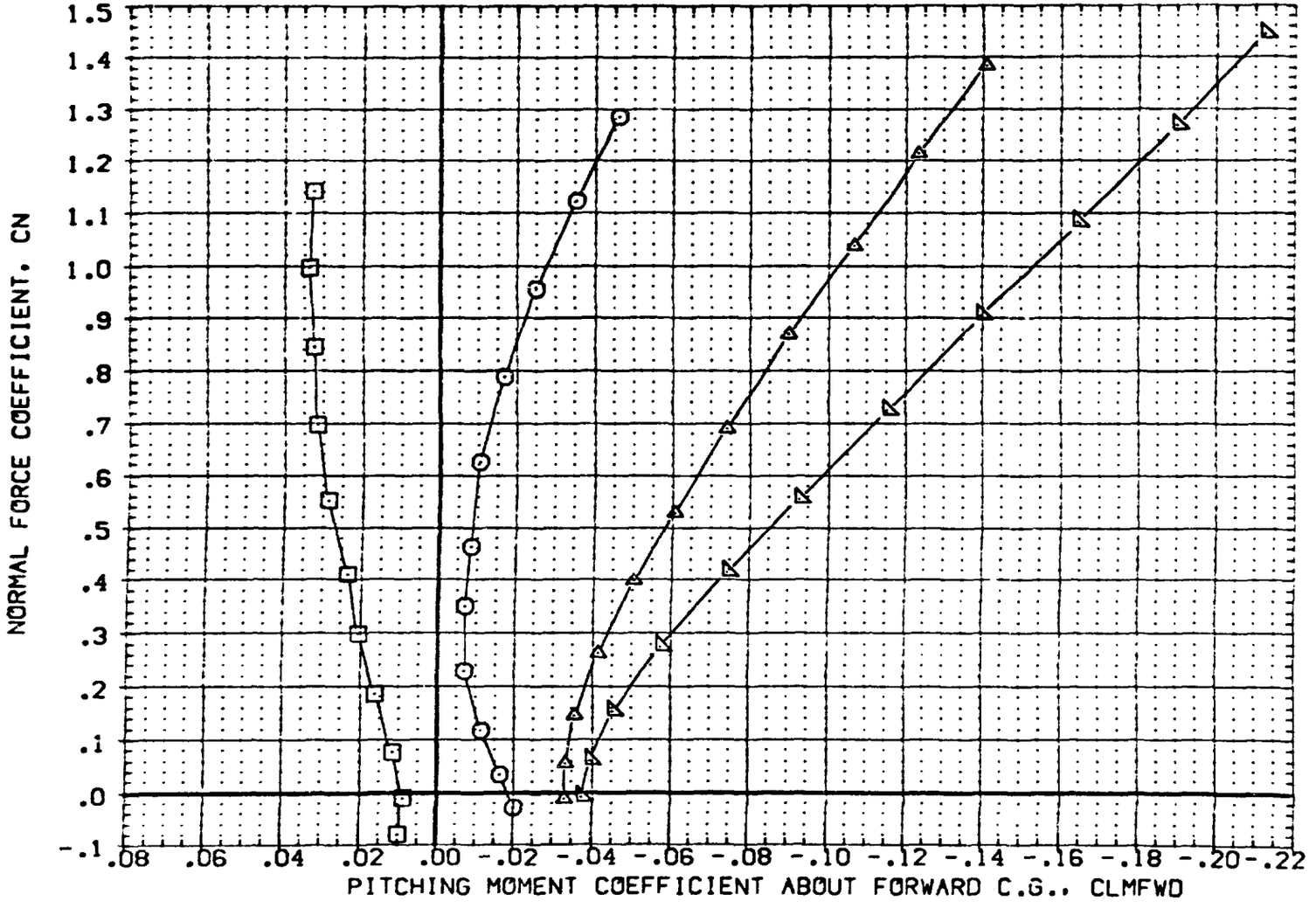


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB6009A)	▷	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

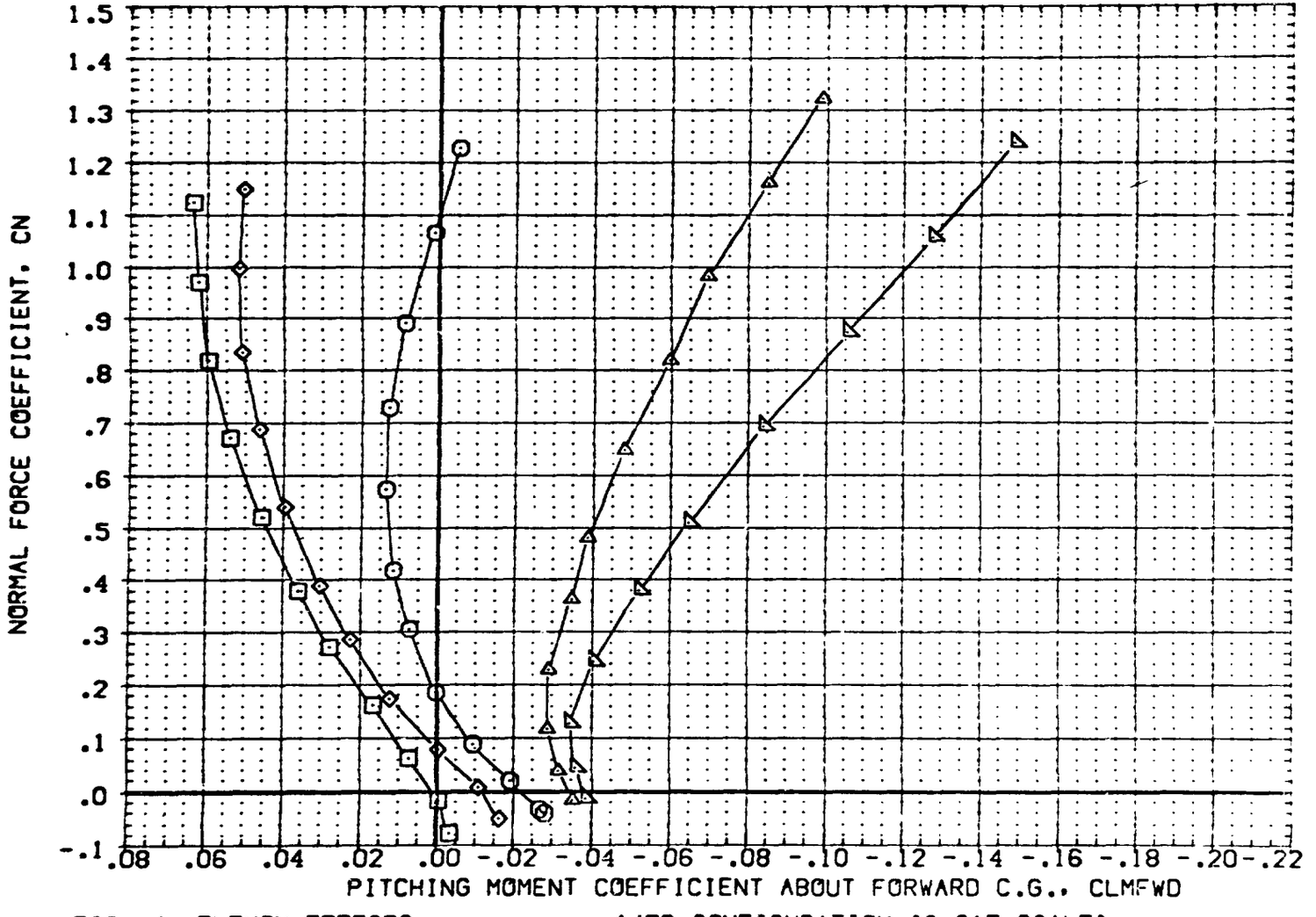


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	⋈	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	▷	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

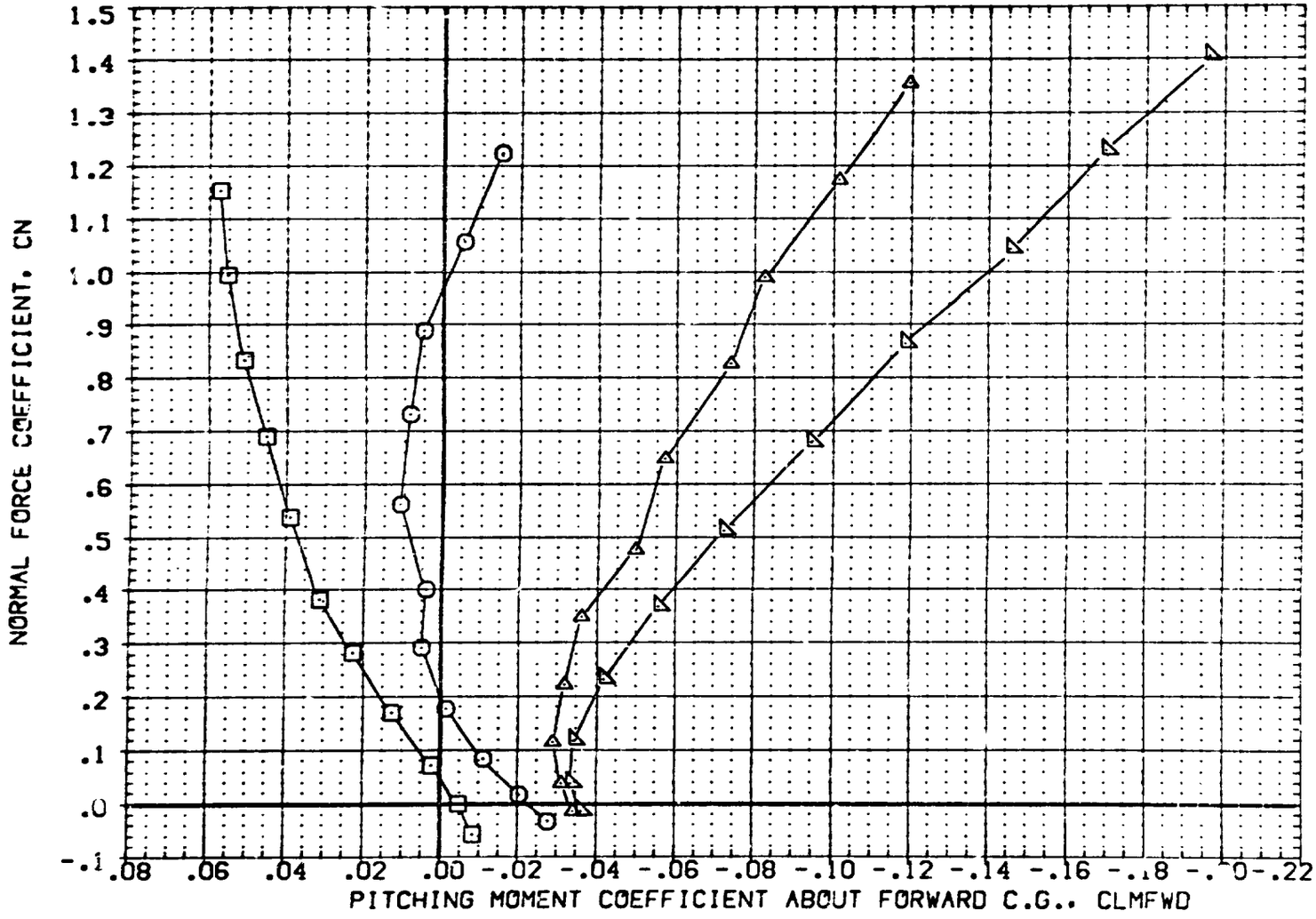


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6004)		DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000
(CB6009A)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.1800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

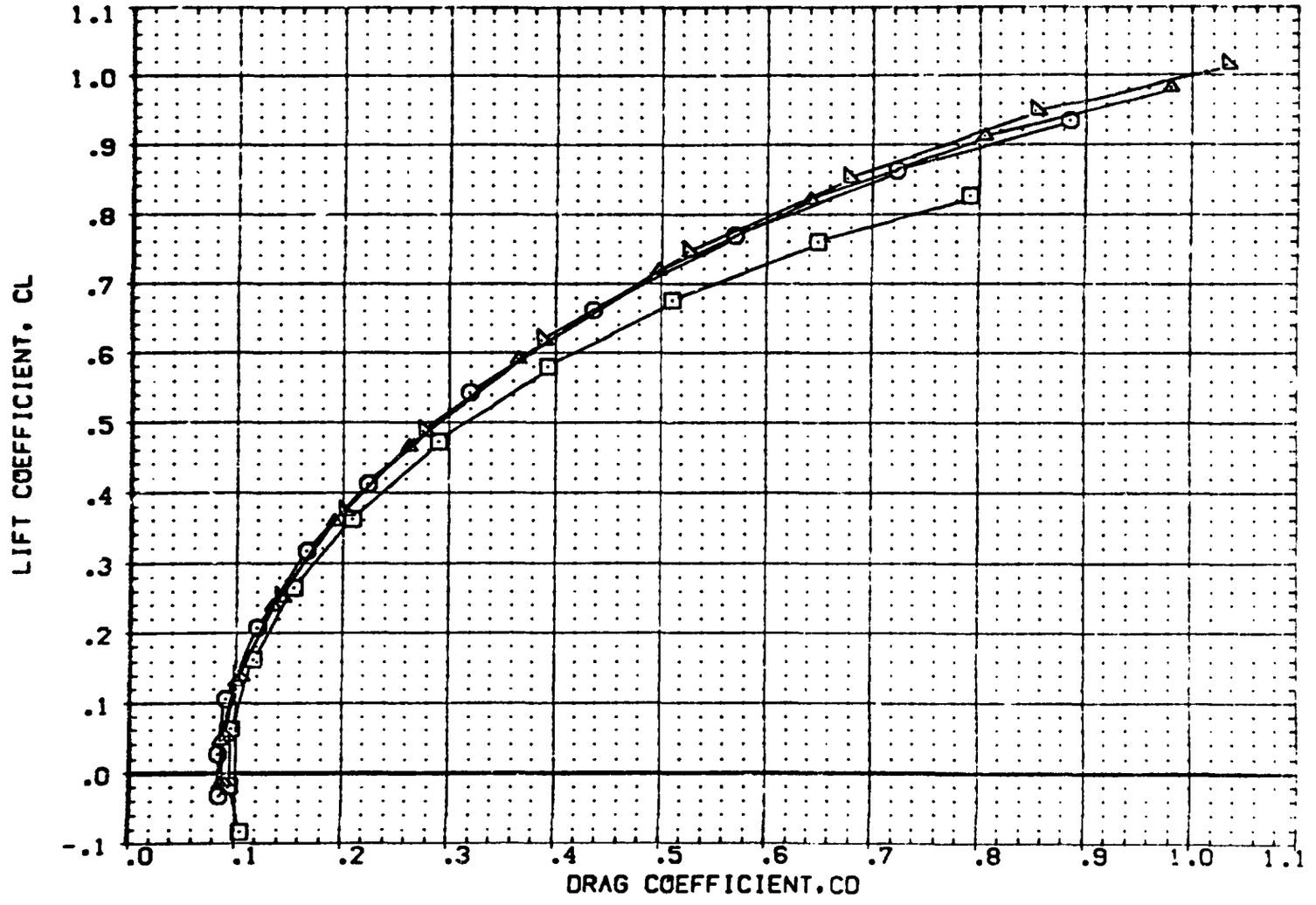


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004	◇	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	◺	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

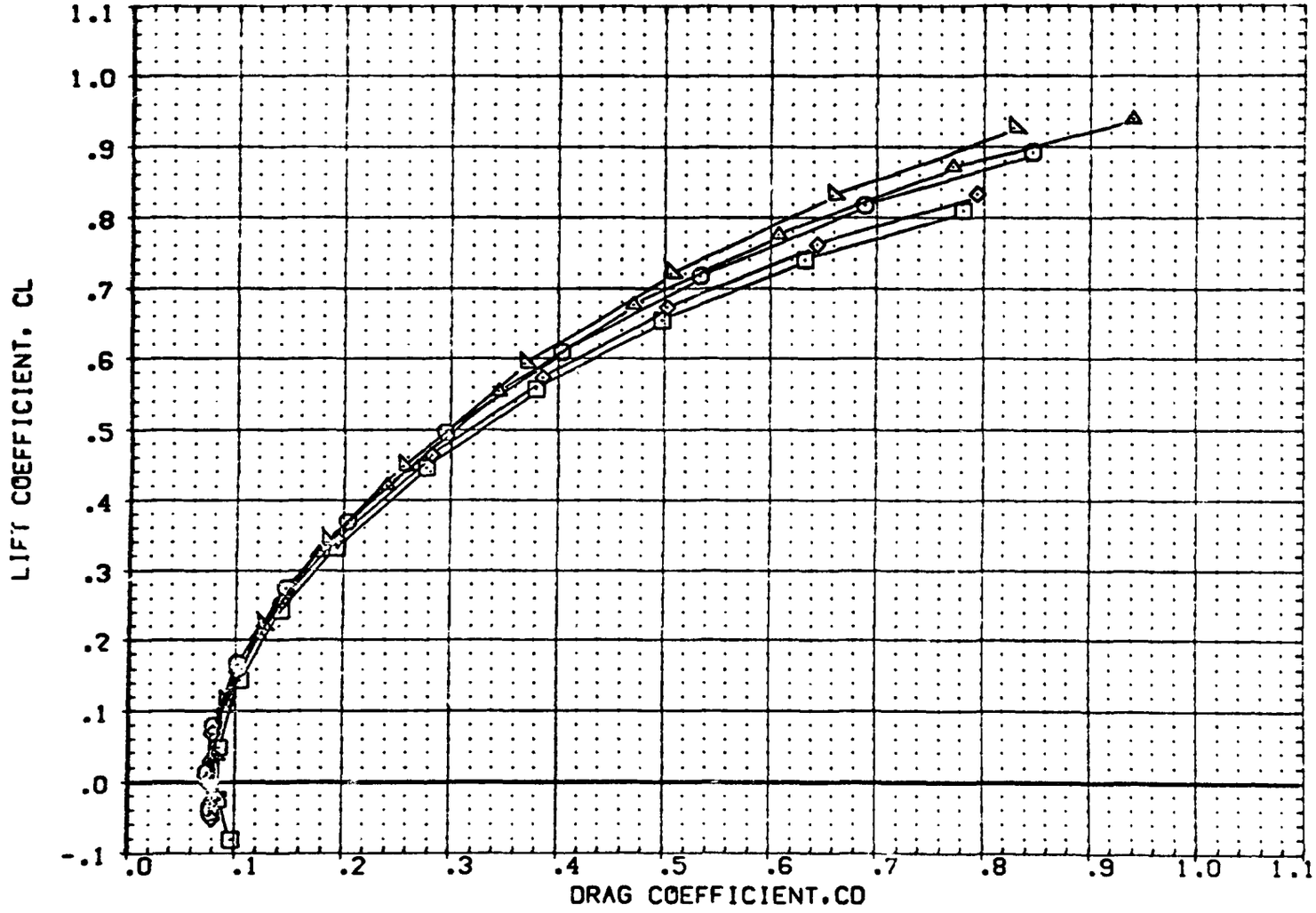


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6003)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6004)	◇	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(CB6005)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000
(CB609A)	▽	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.0800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

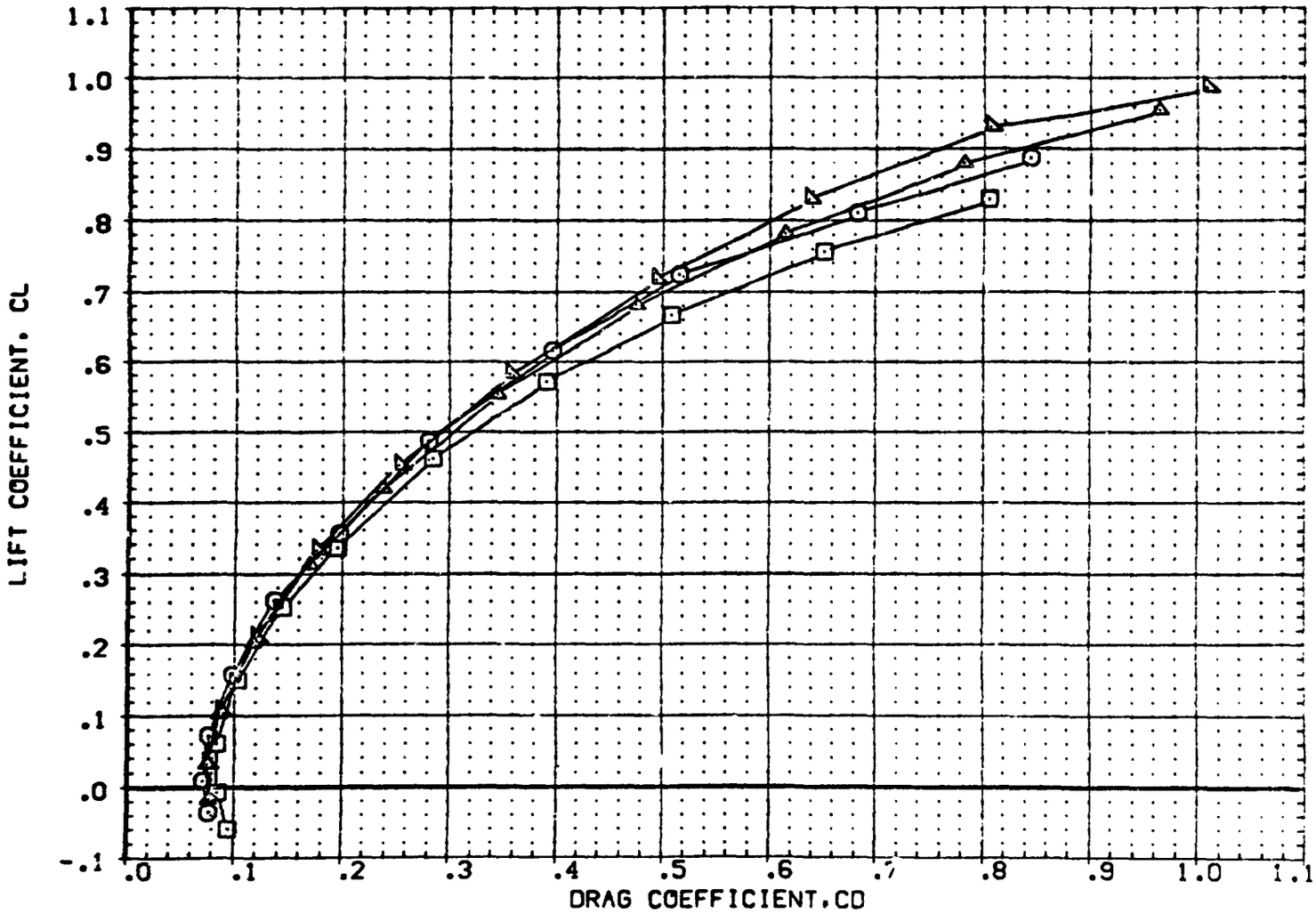


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4800	IN
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

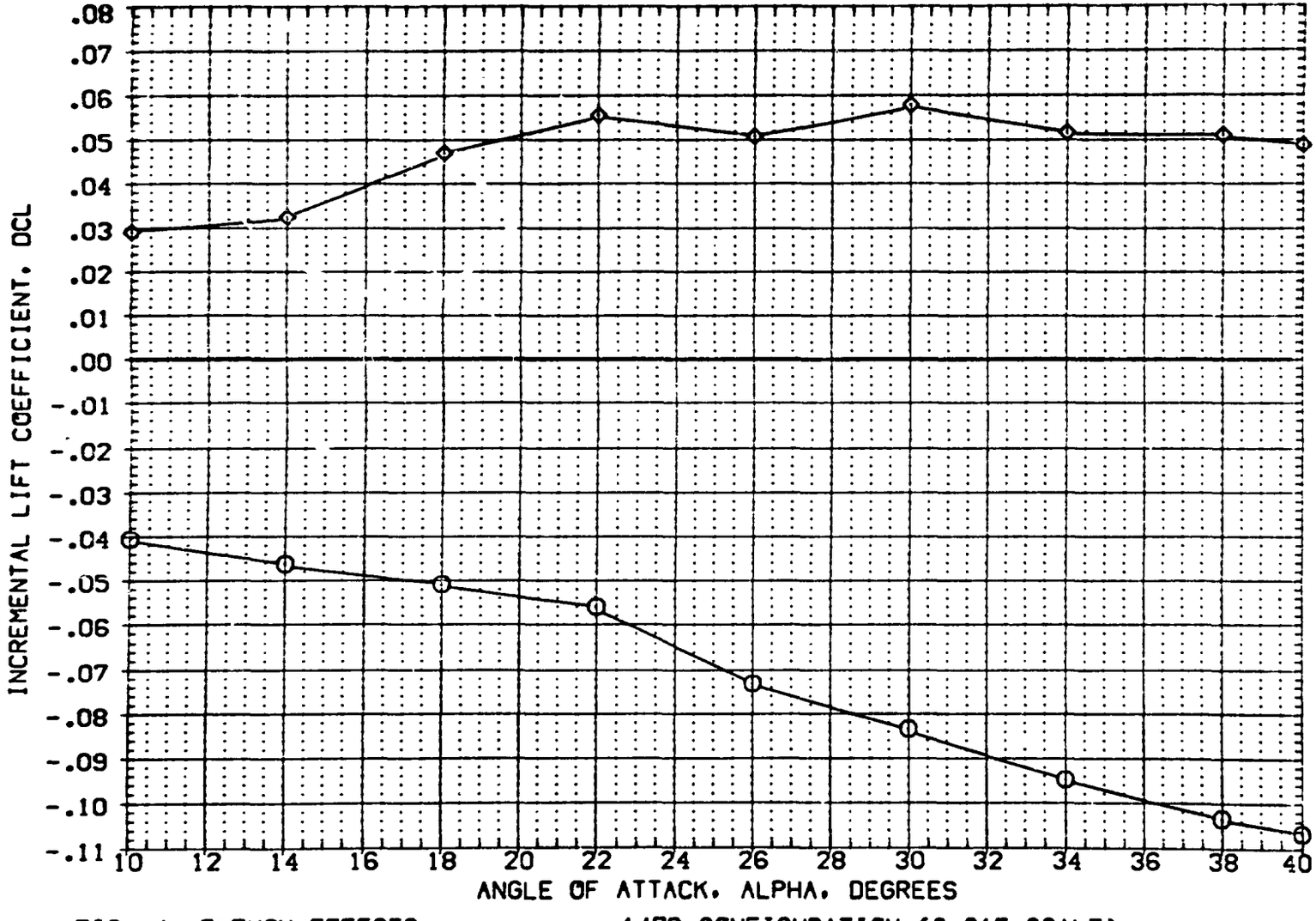


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

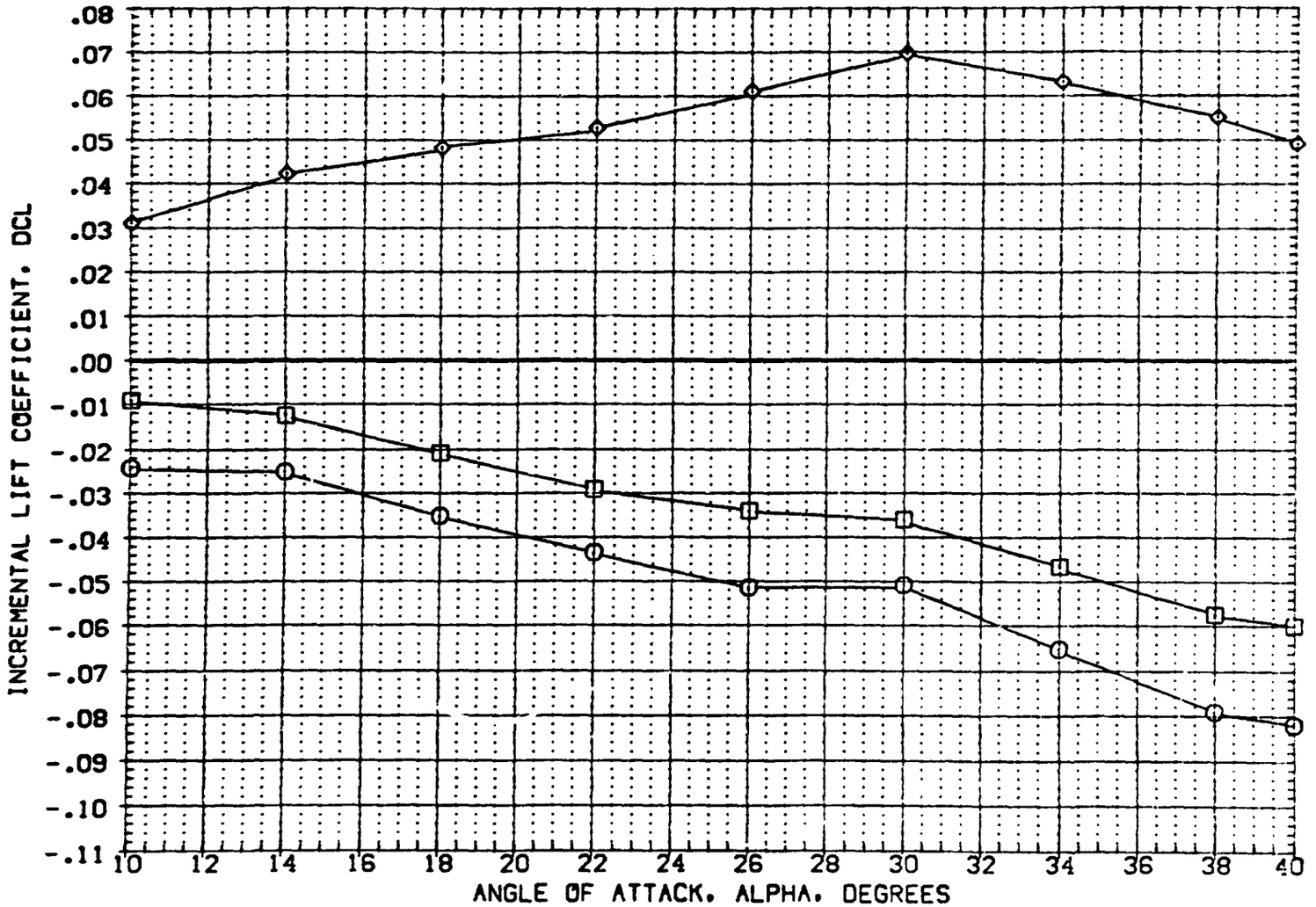


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6600	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

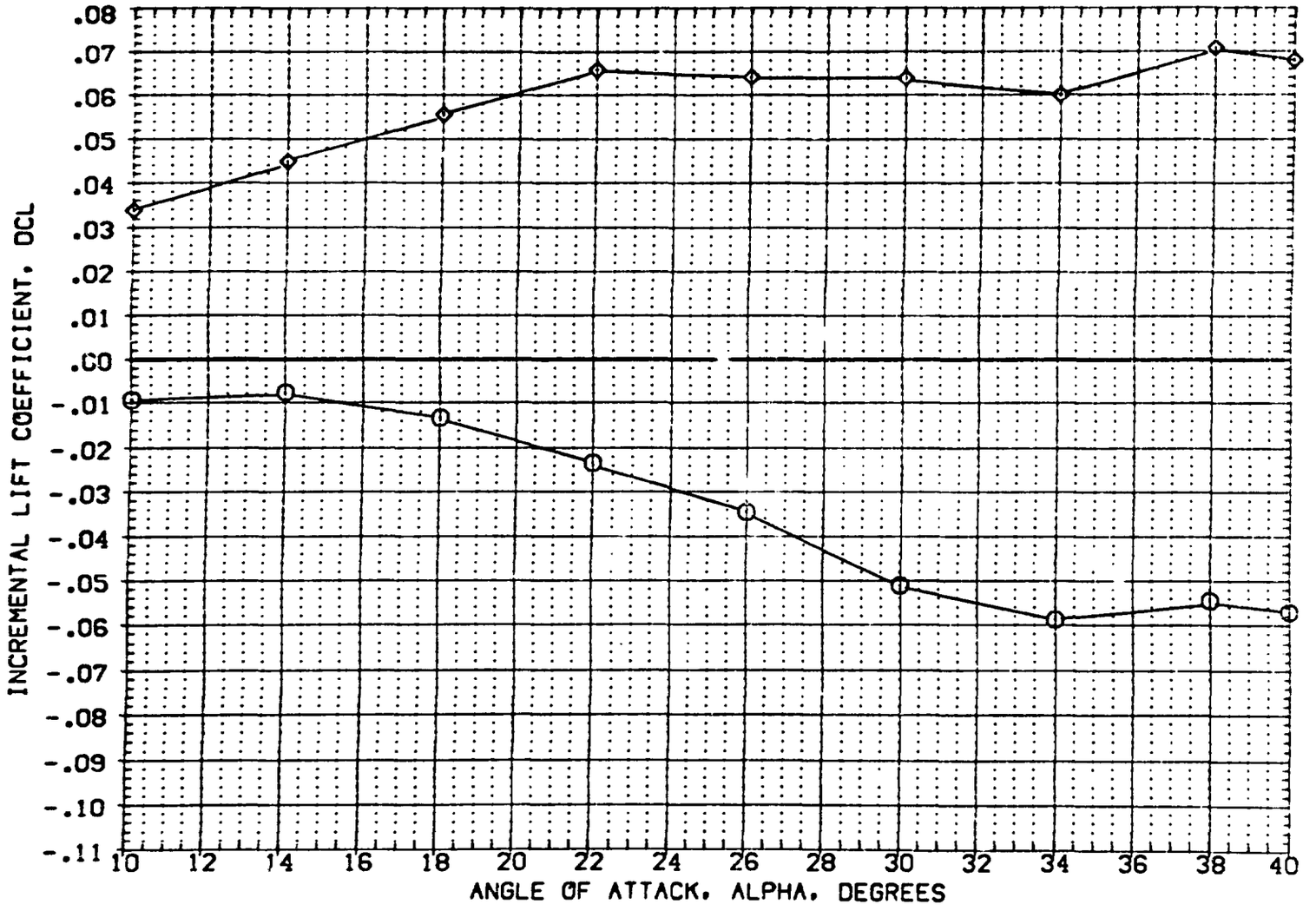


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6003)	AMES3.5-168 0A23 822 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	AMES3.5-168 0A23 822 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

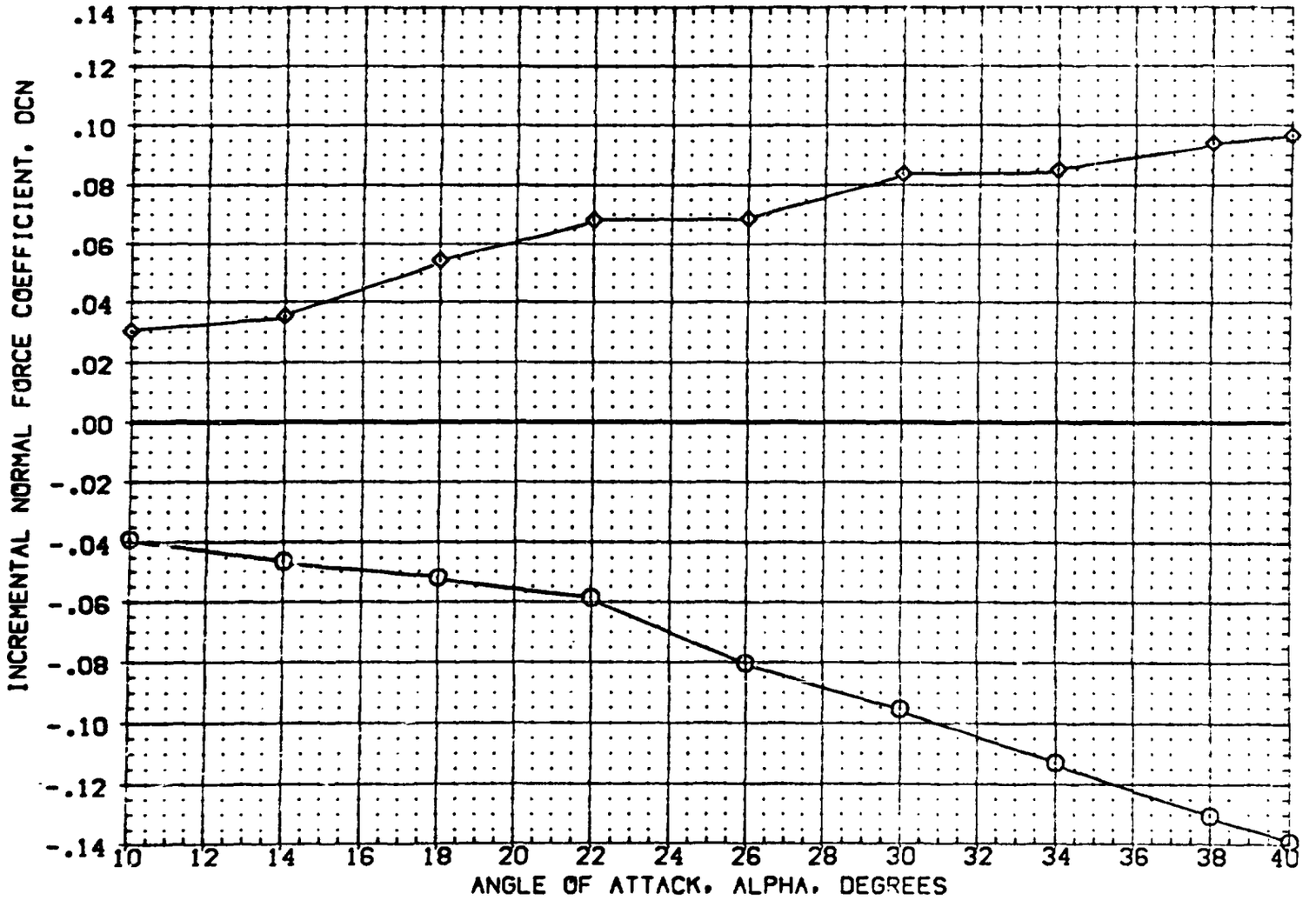


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

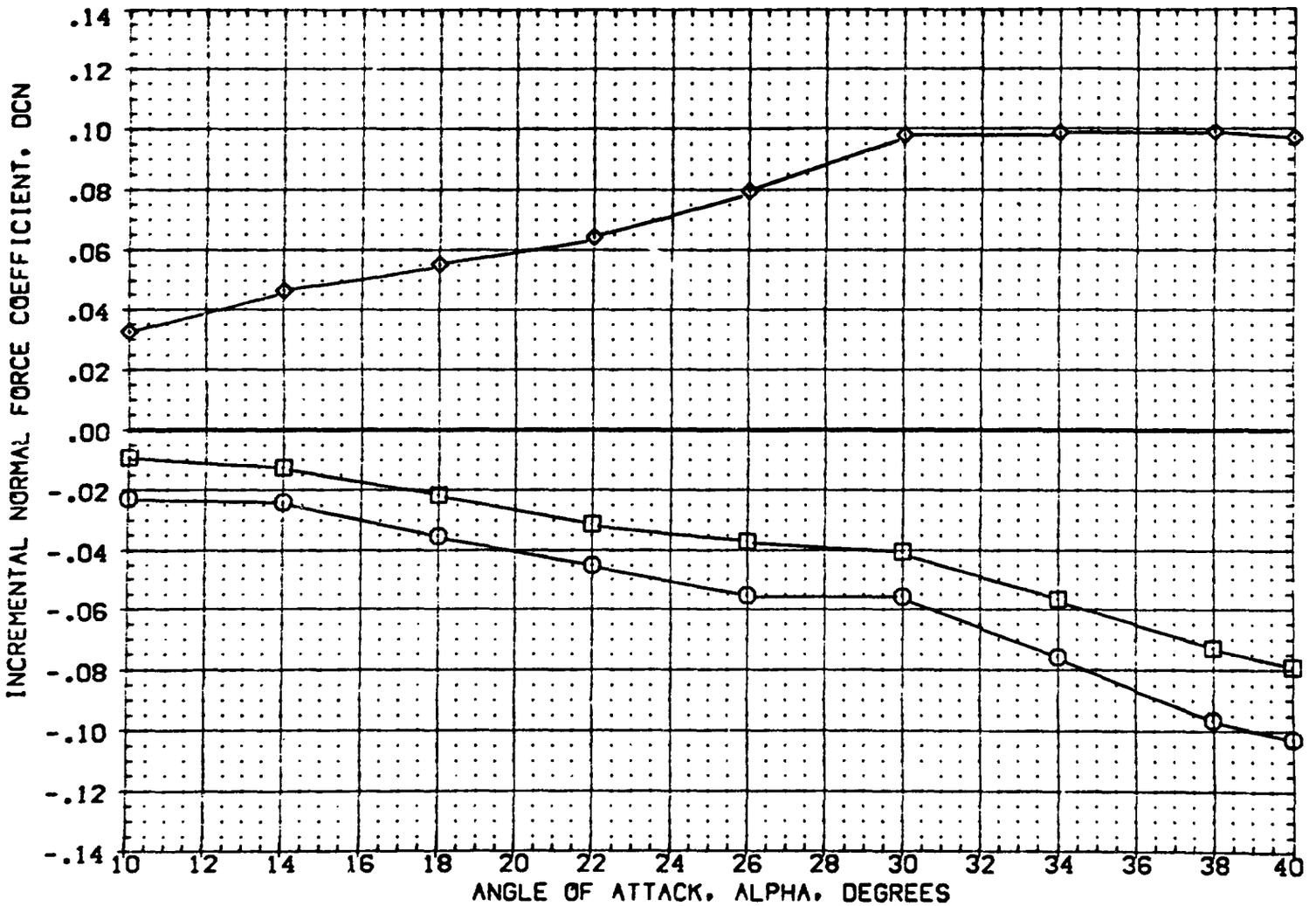


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(186003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(186004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(186005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.6000	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

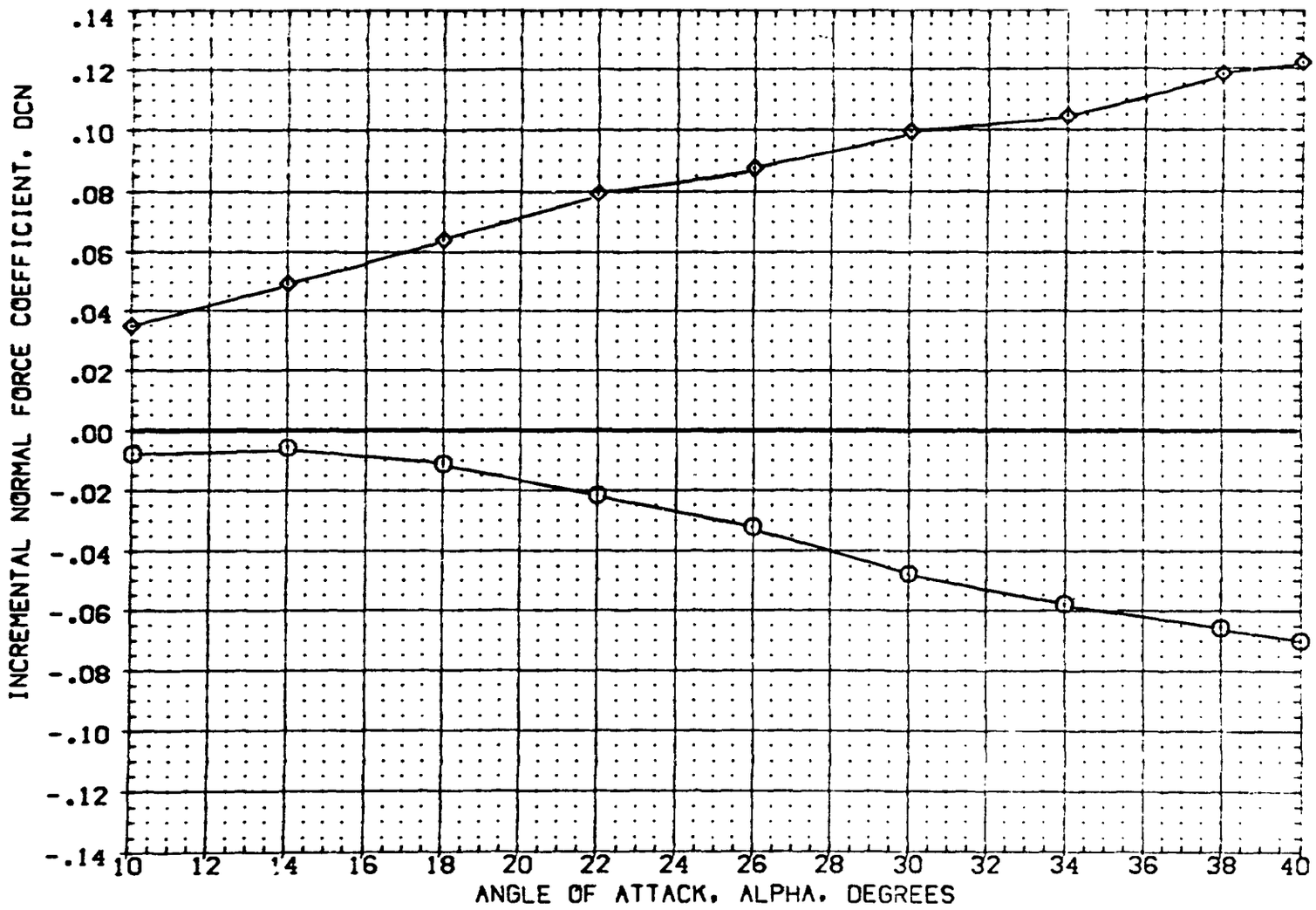


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(T86003)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(T86004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(T86005)	◇	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1075.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

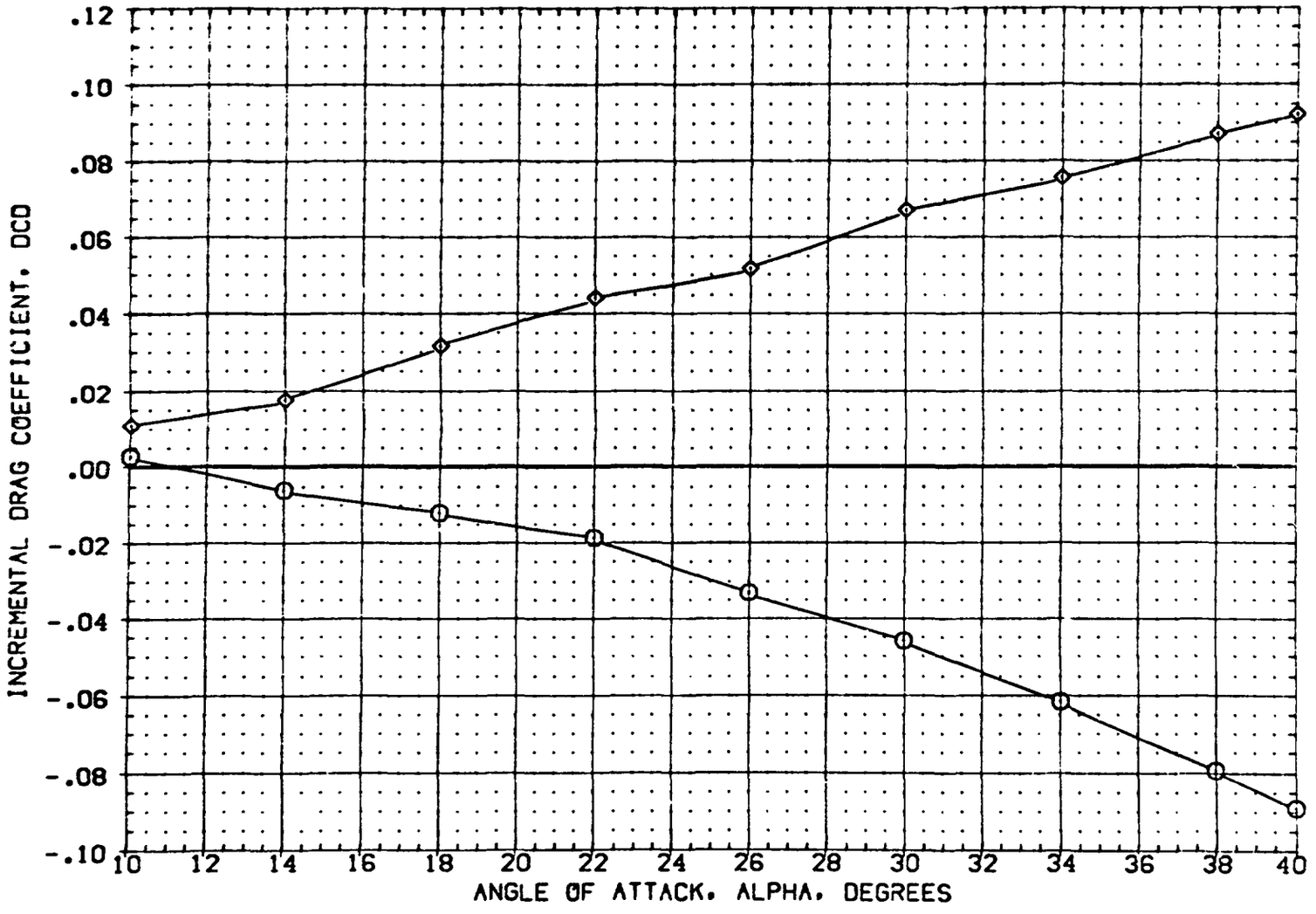


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(TB6004)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

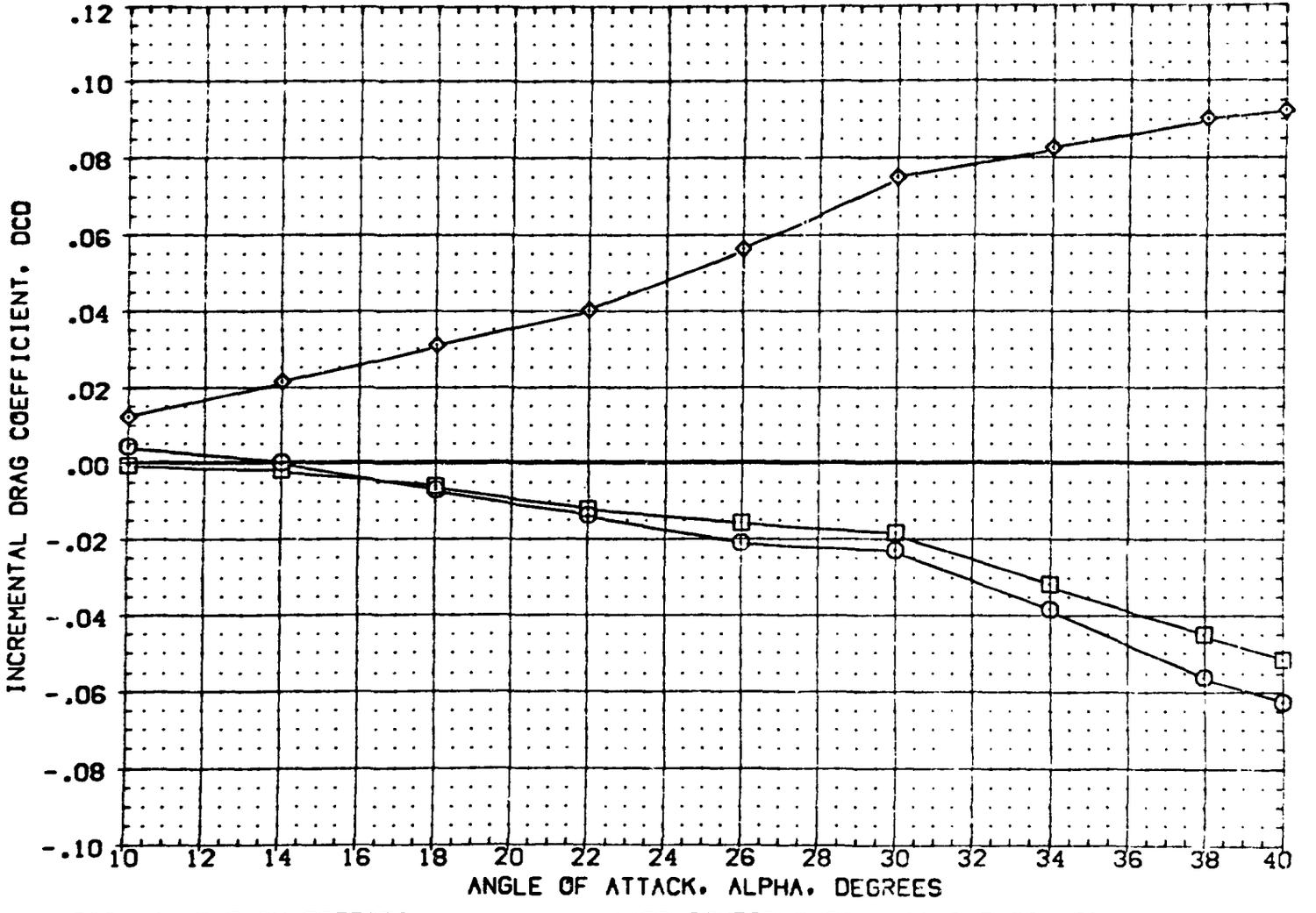


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.9000	IN.
BREF	936.6800	IN.
XMRP	1070.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

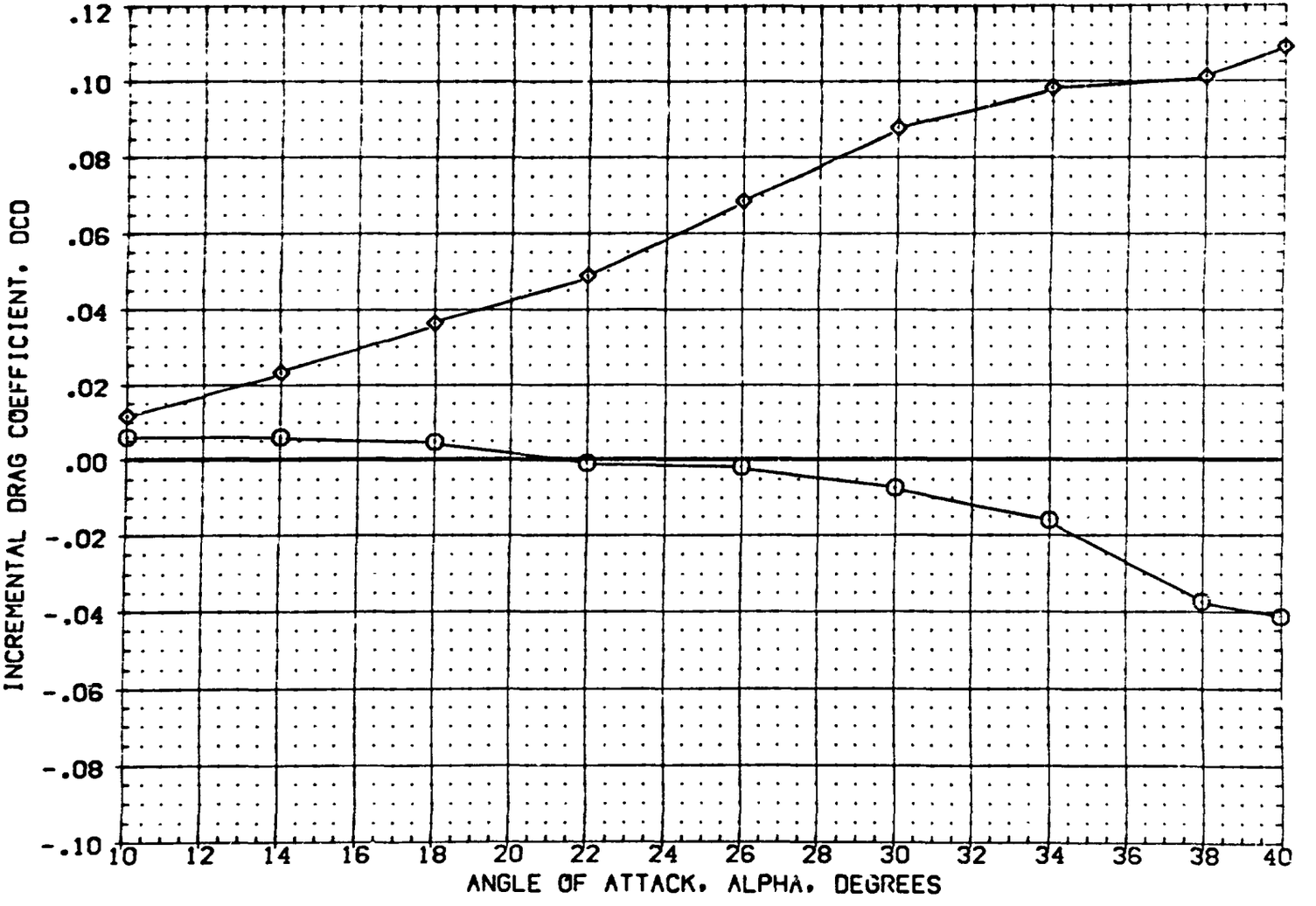


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

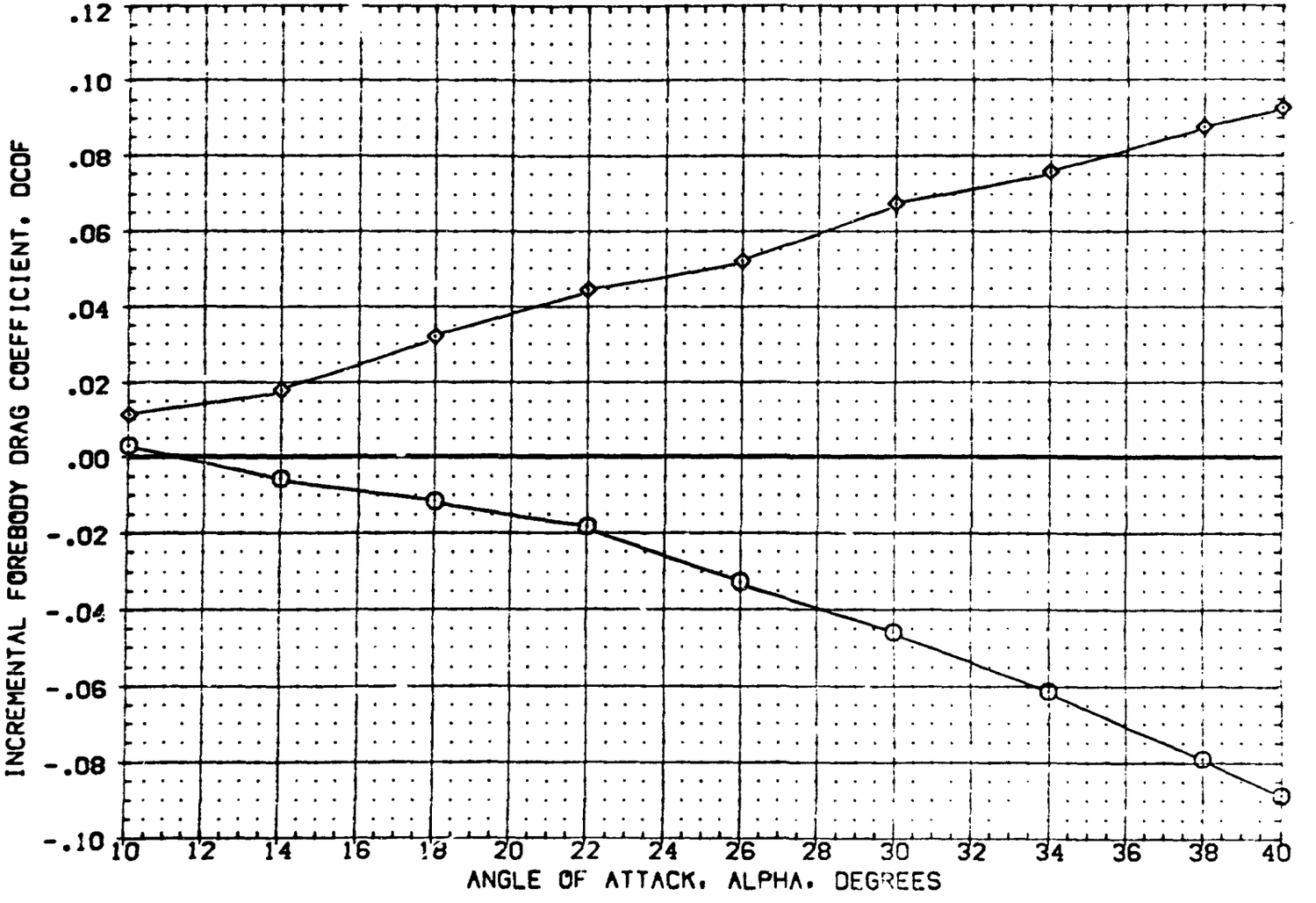


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(TB6004)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

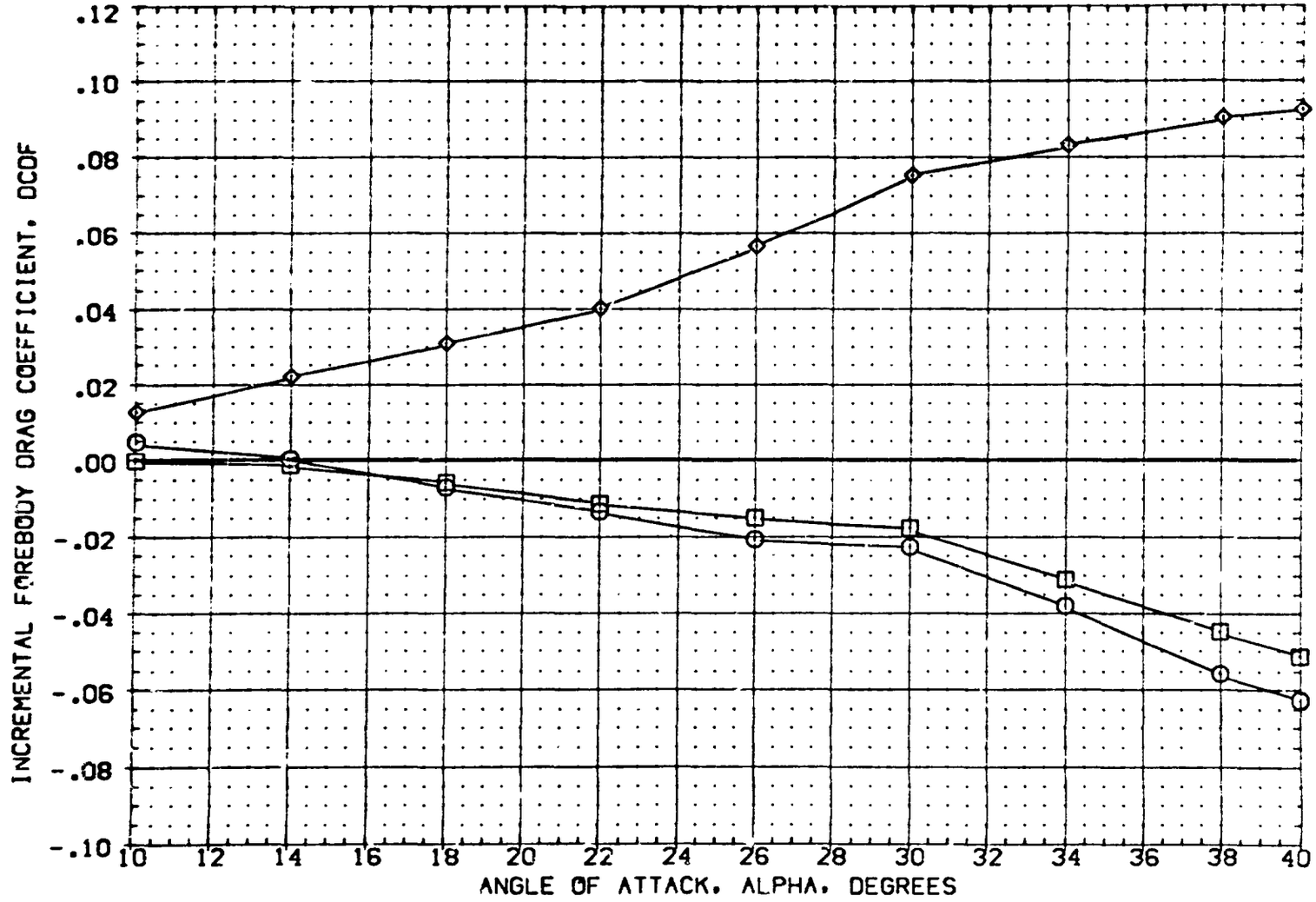


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	930.6800	IN.
XMRP	1056.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

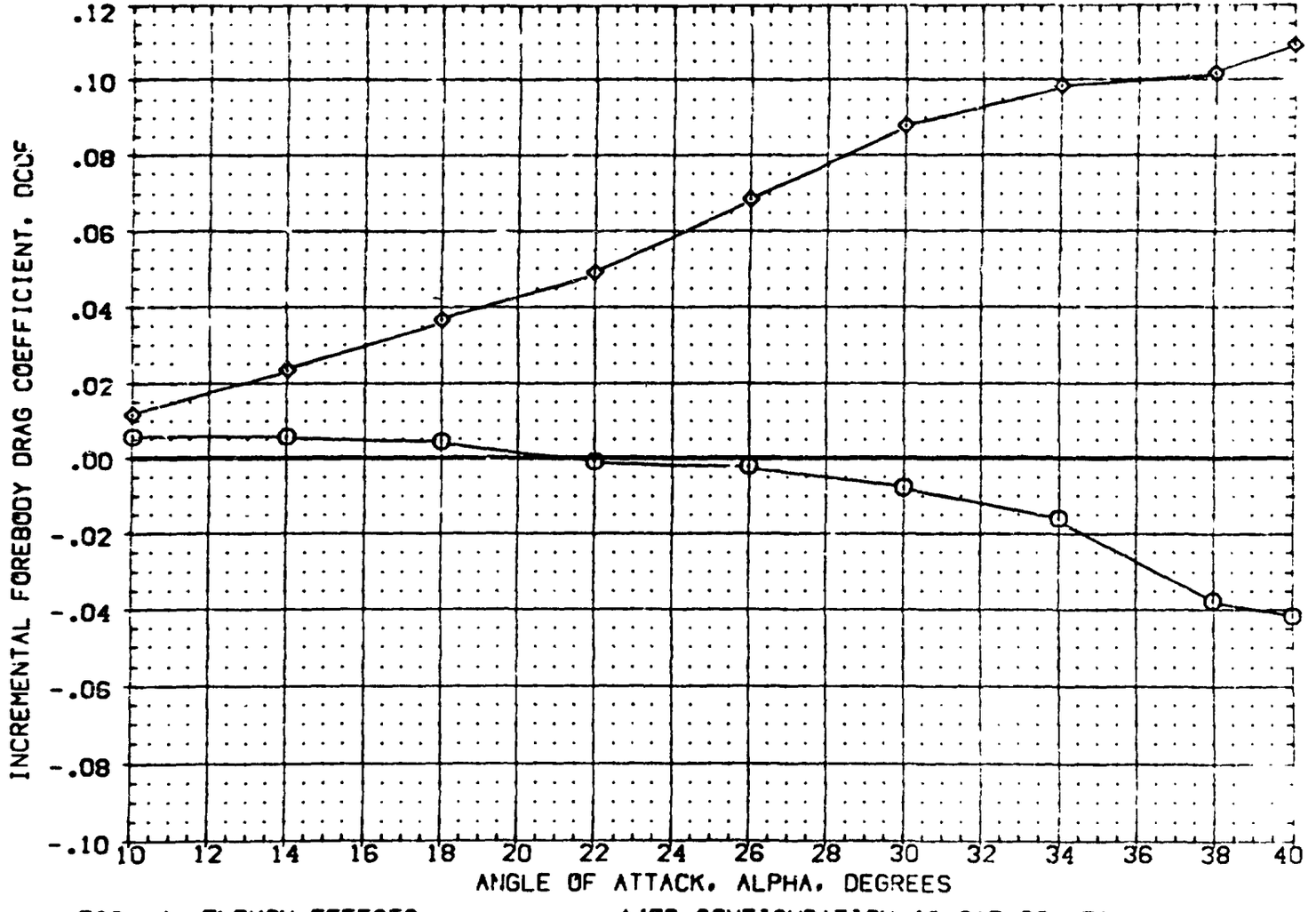


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	0.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	.0.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

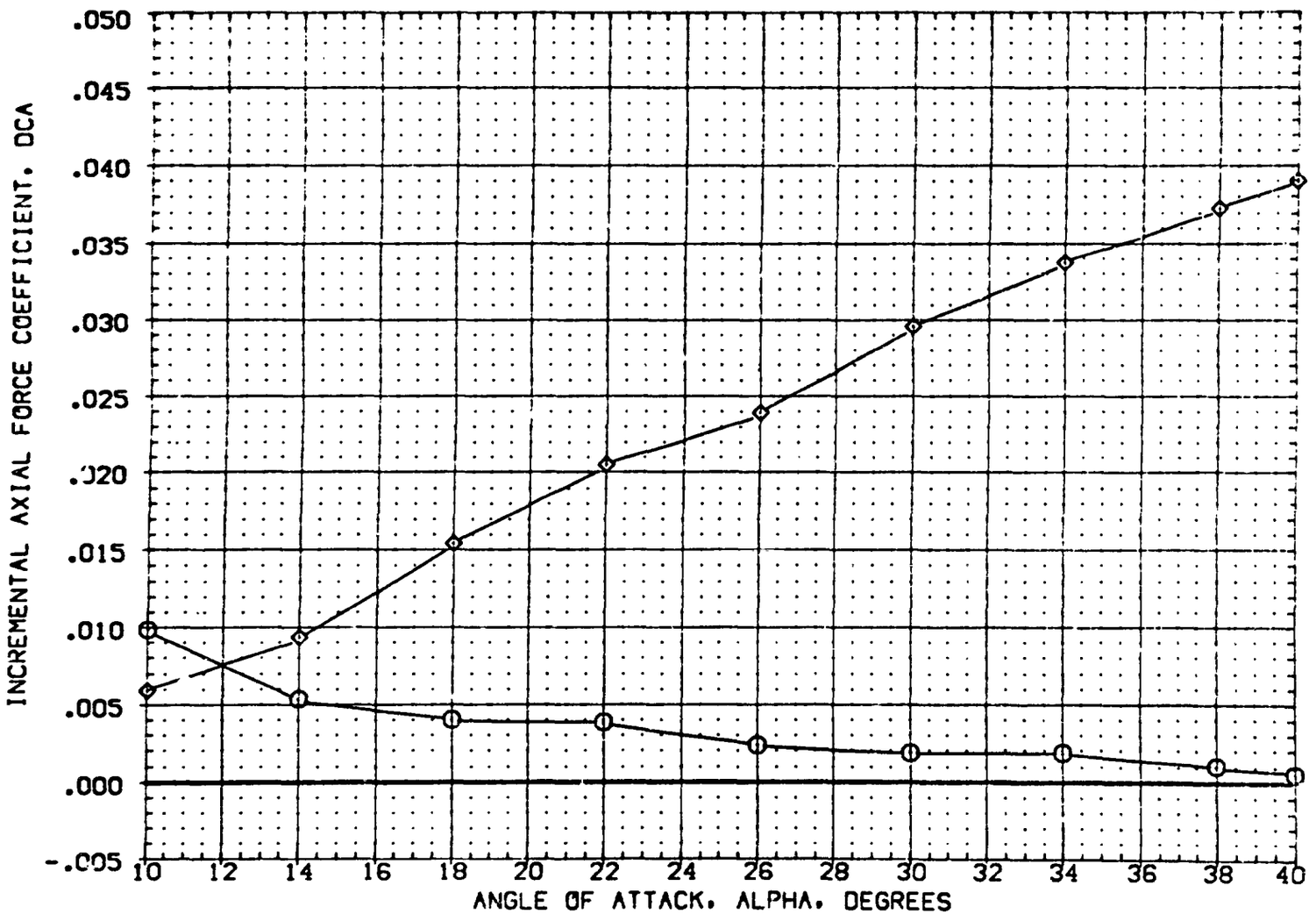


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2590.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.6900	IN.
XMRP	1075.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

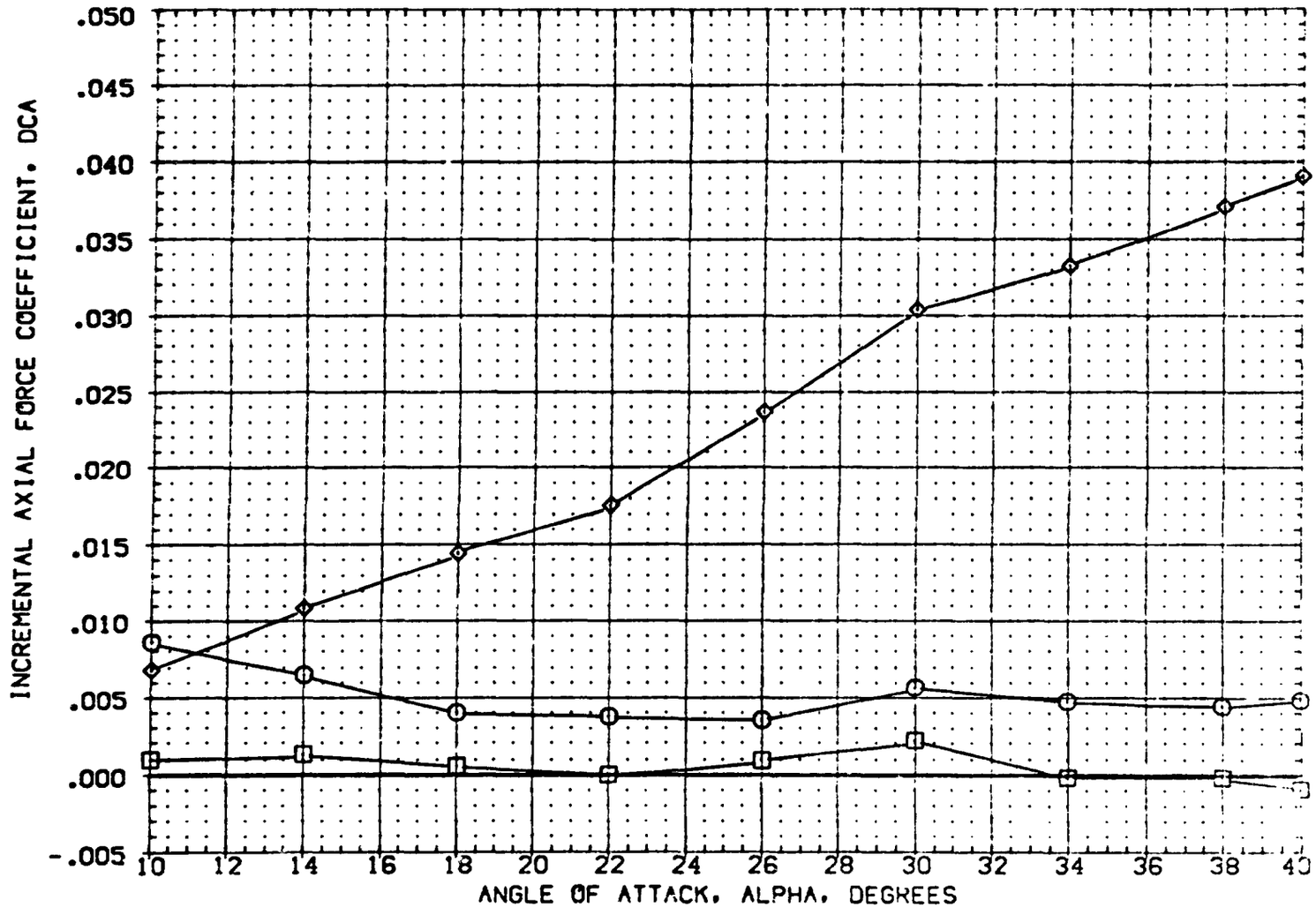


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(T86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(T86004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(T86005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.0800	IN.
XMRP	1073.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

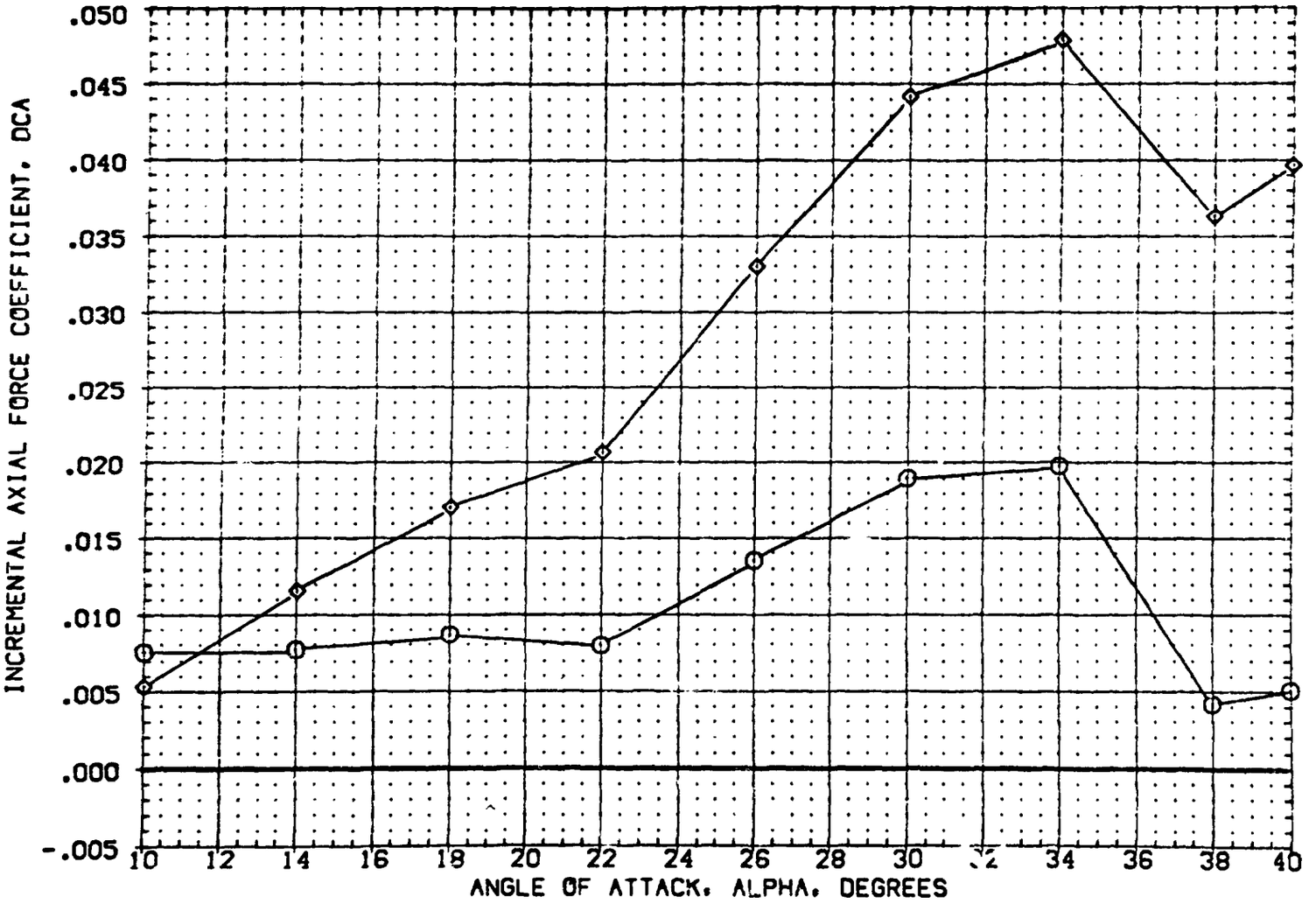


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.6000	IN.
XMRP	1076.4600	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

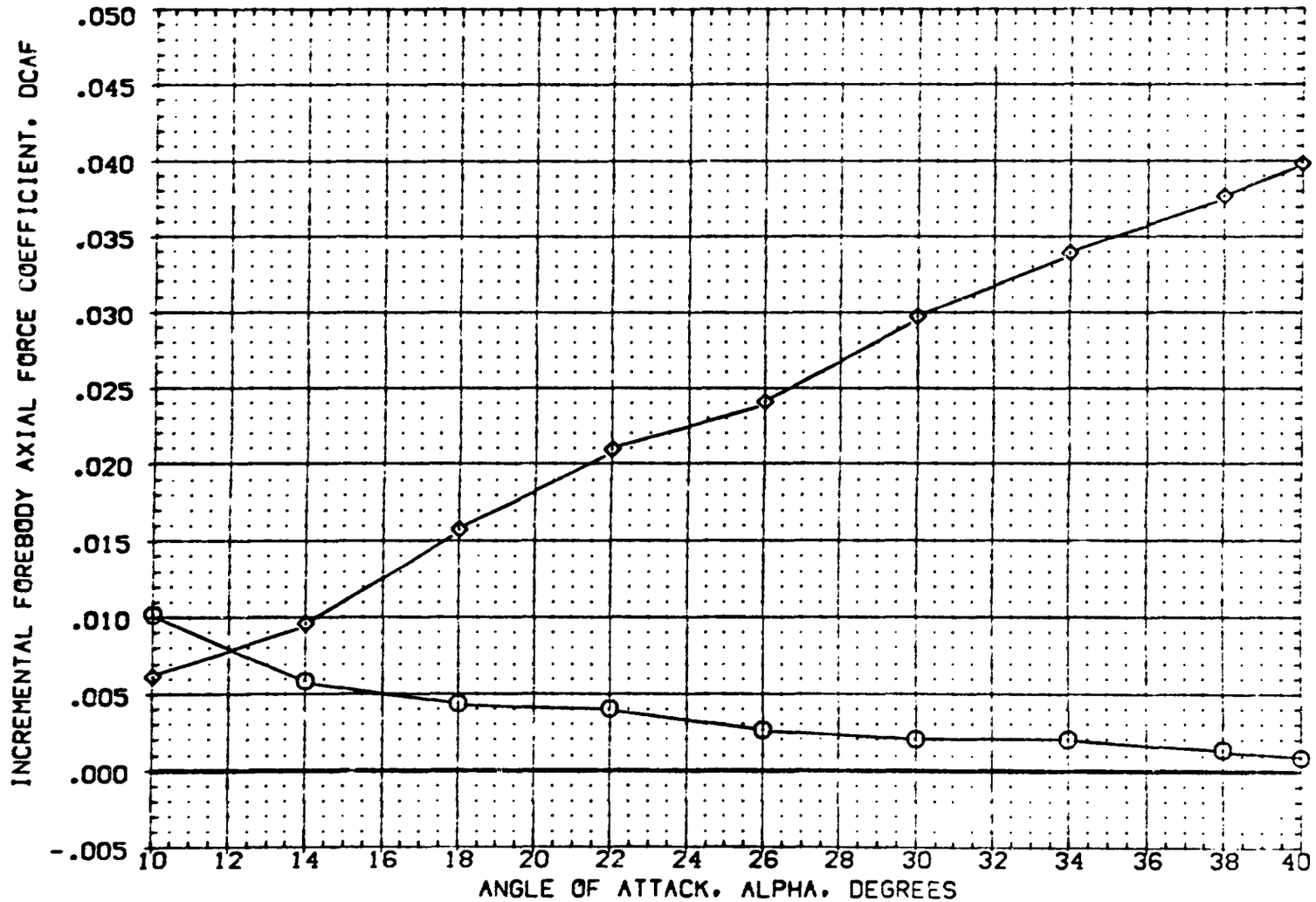


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6003)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(TB6004)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

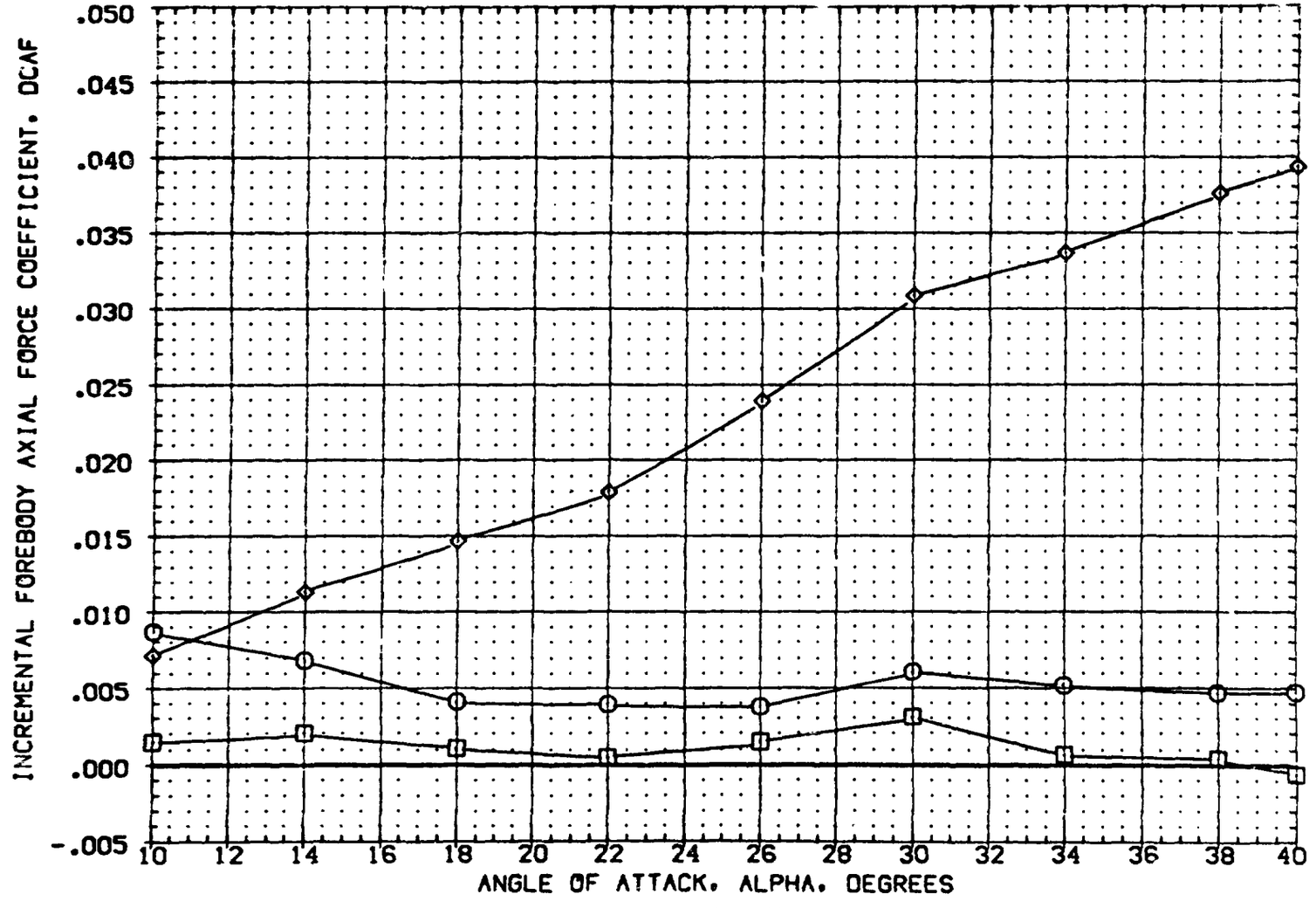


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(T86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(T86004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(T86005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

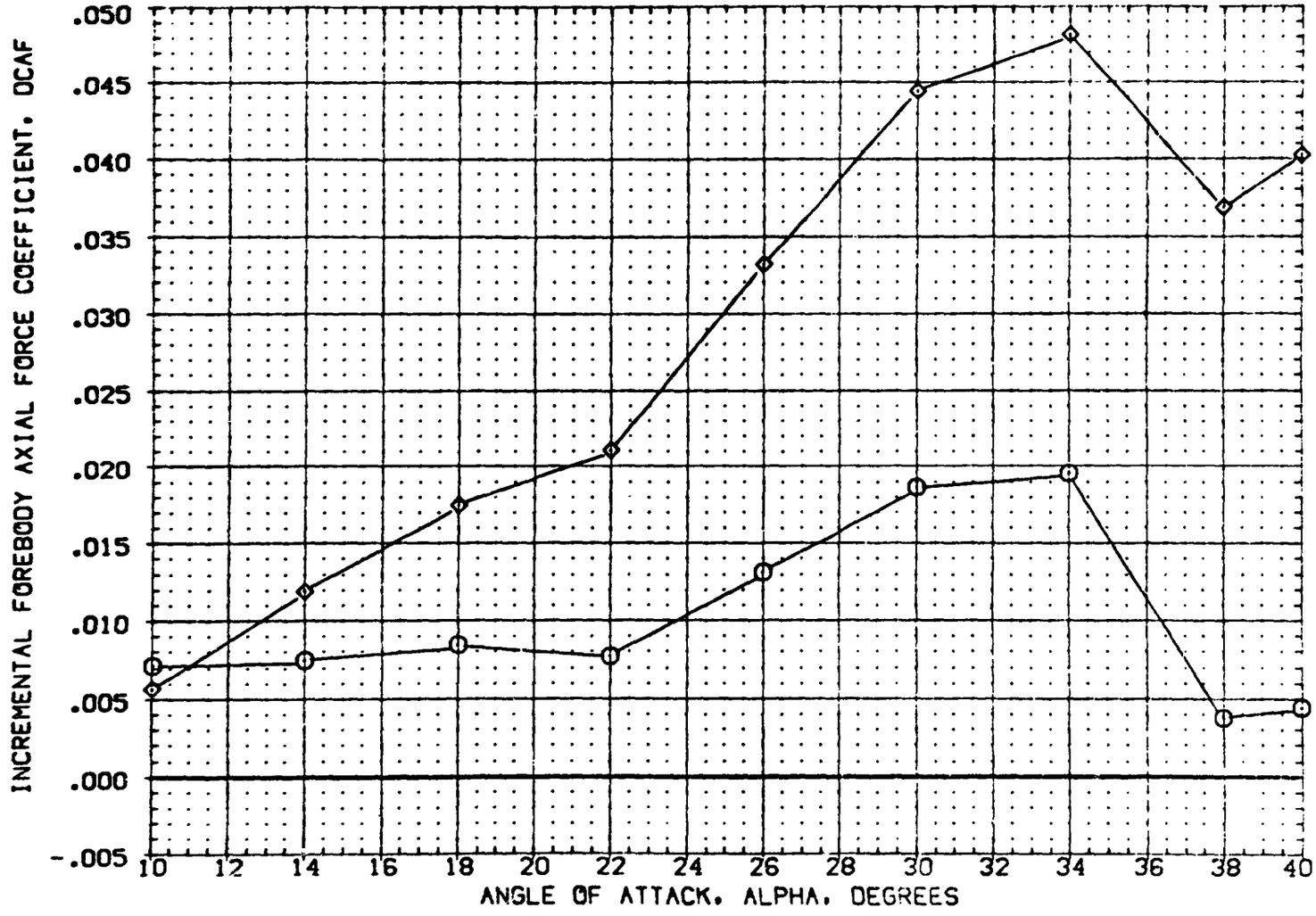


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

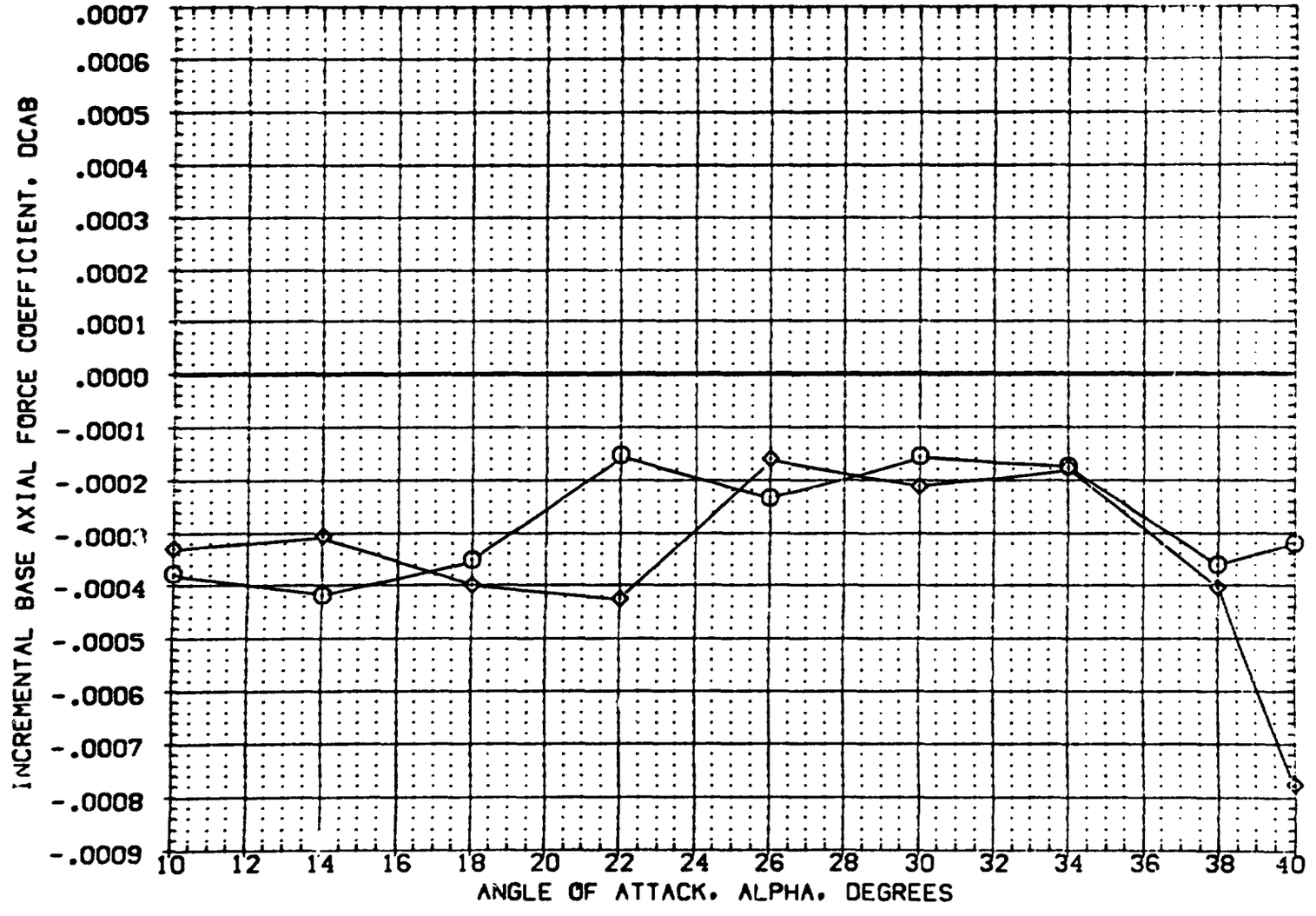


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1078.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

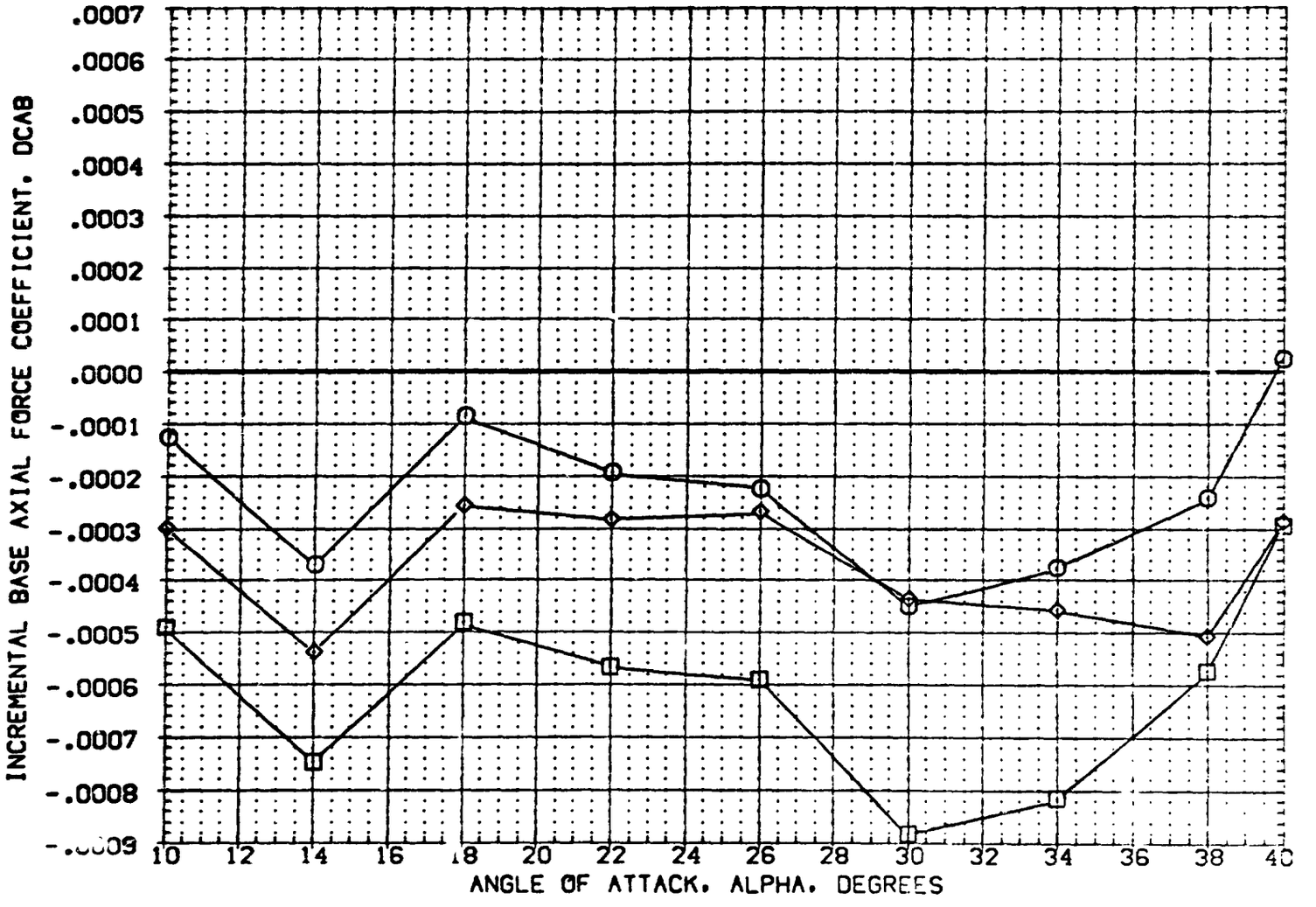


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.015	SCALE

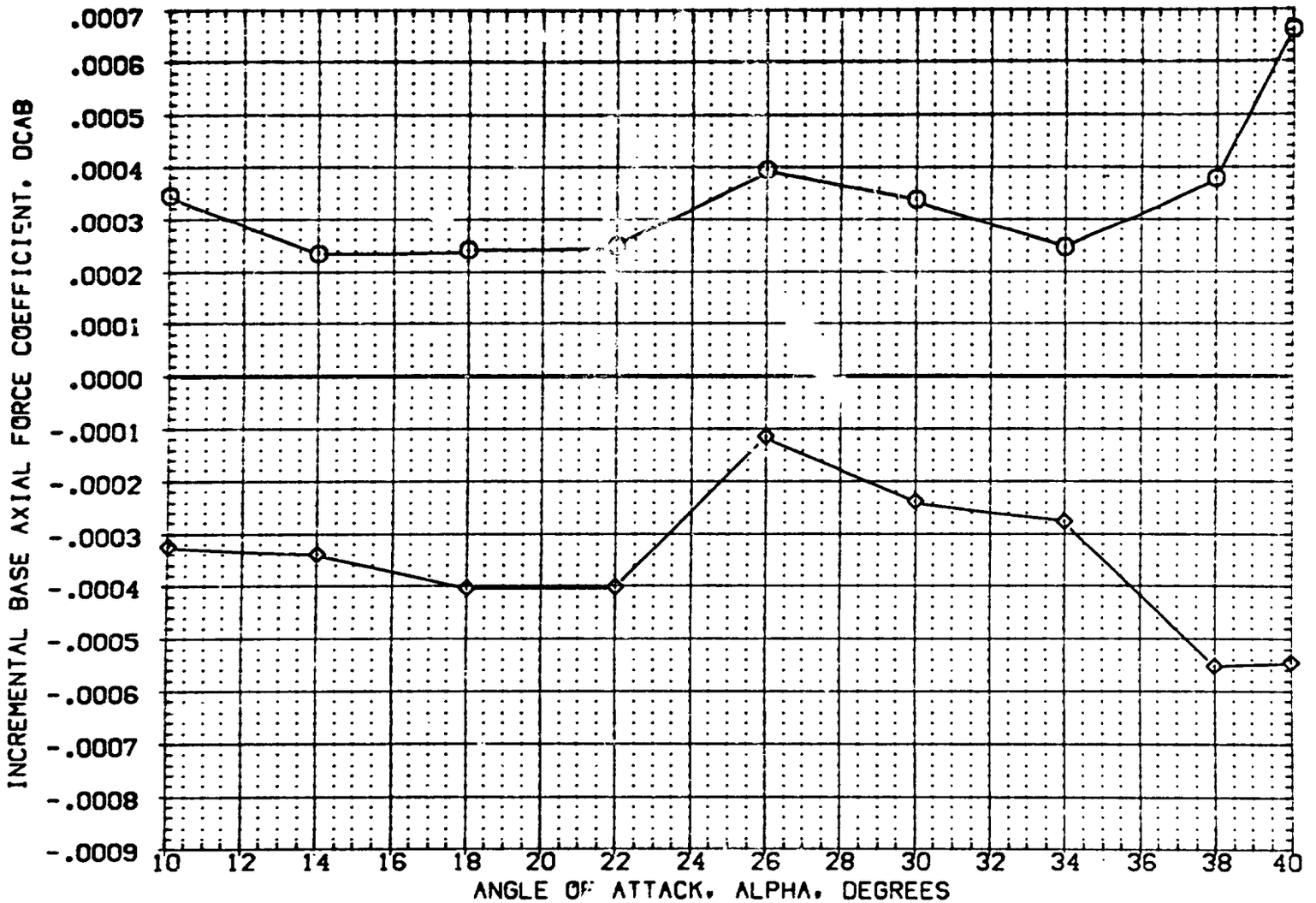


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	993.6000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

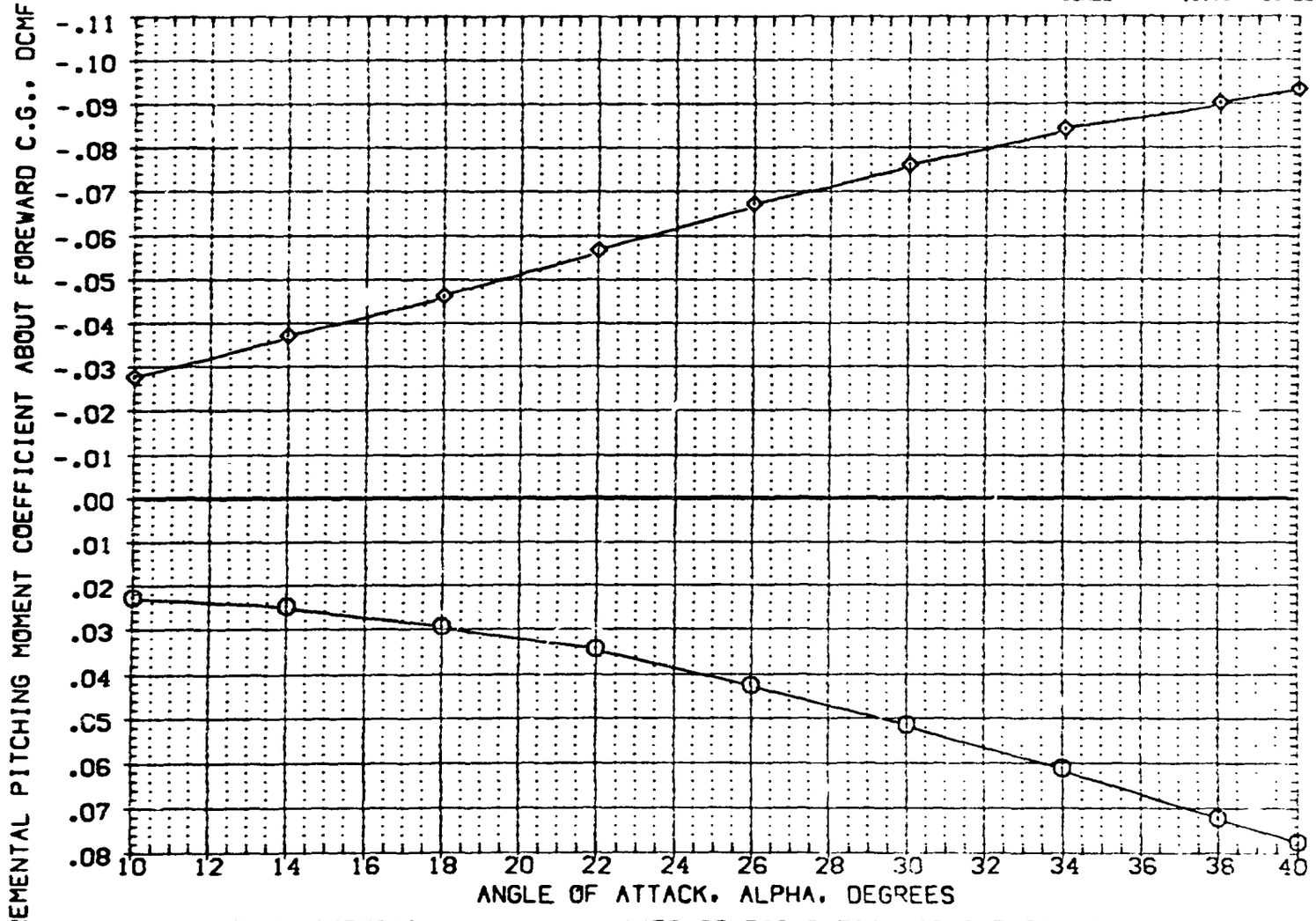


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(TB6004)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

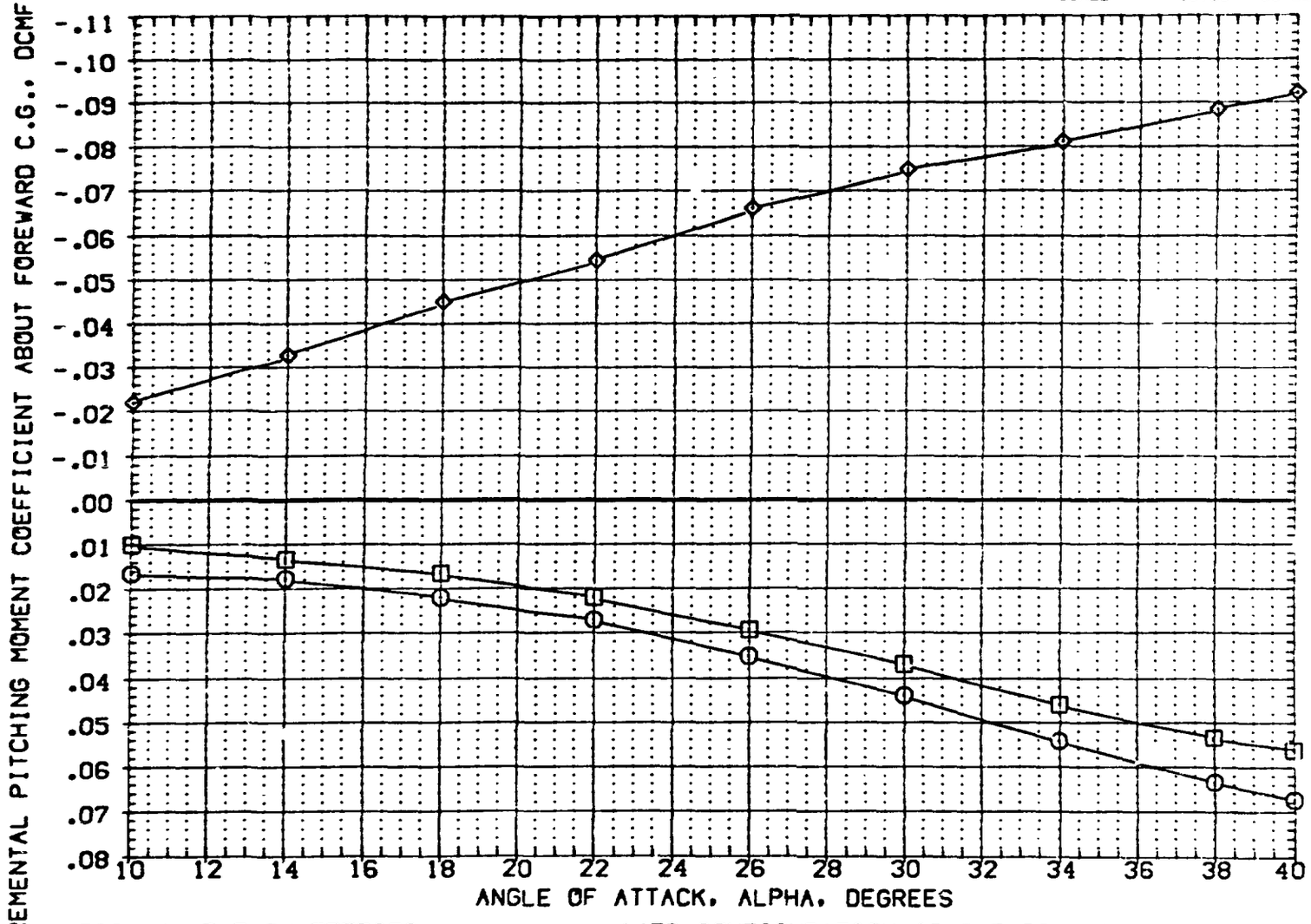


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(TB6003)	○	AMES3.5-168 OA23 B22 C7 E23 FS M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 OA23 B22 C7 E23 FS M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

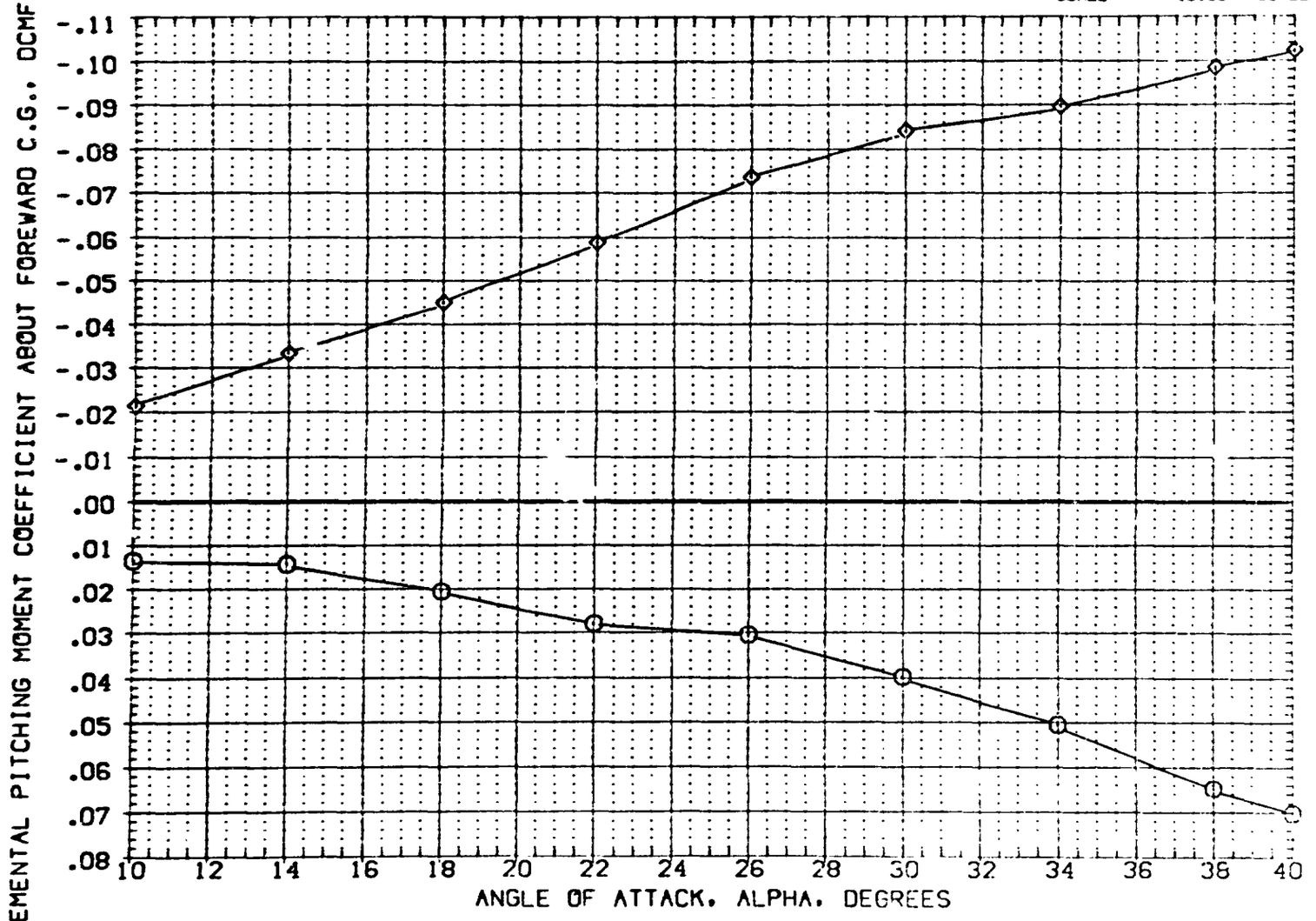


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

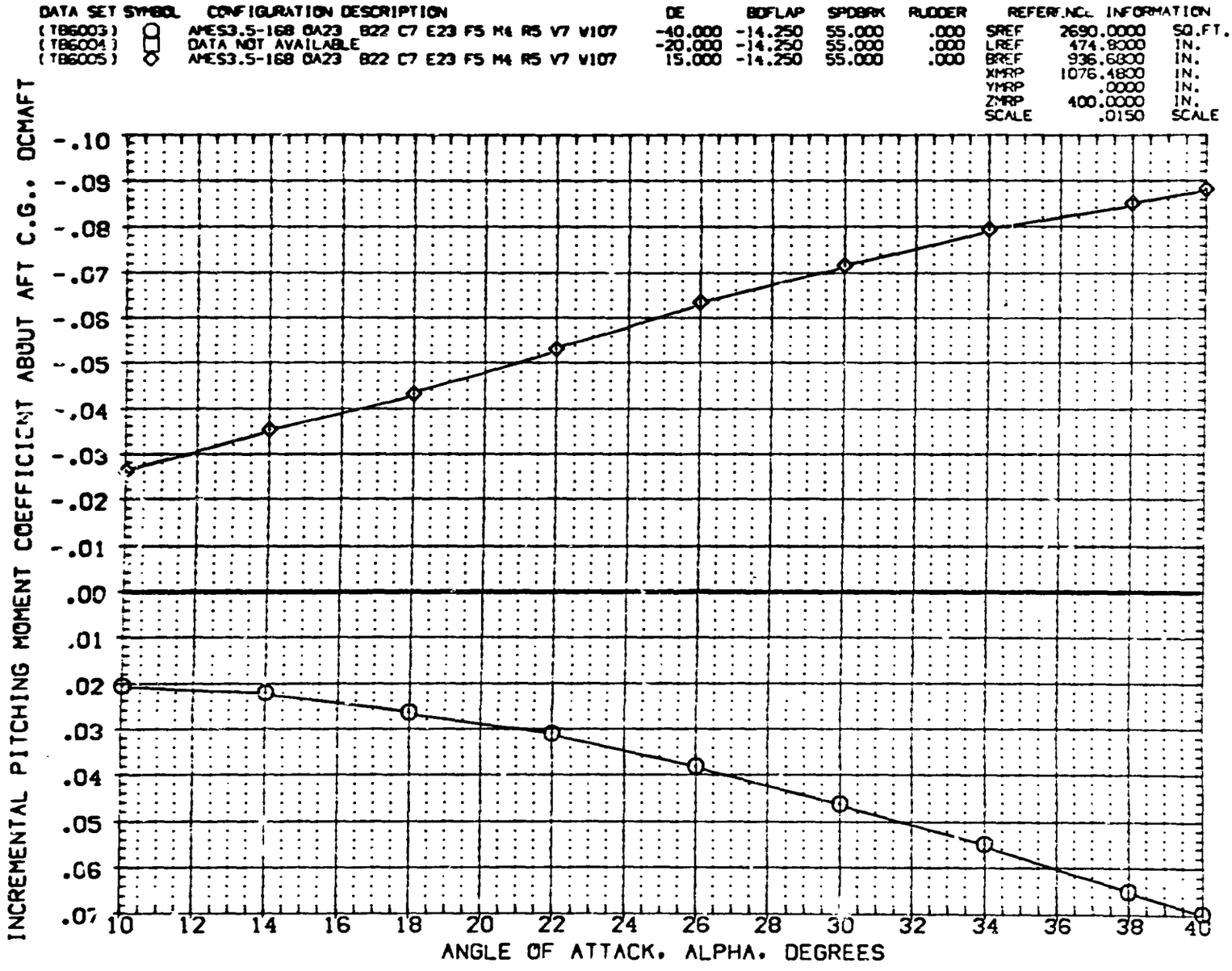


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

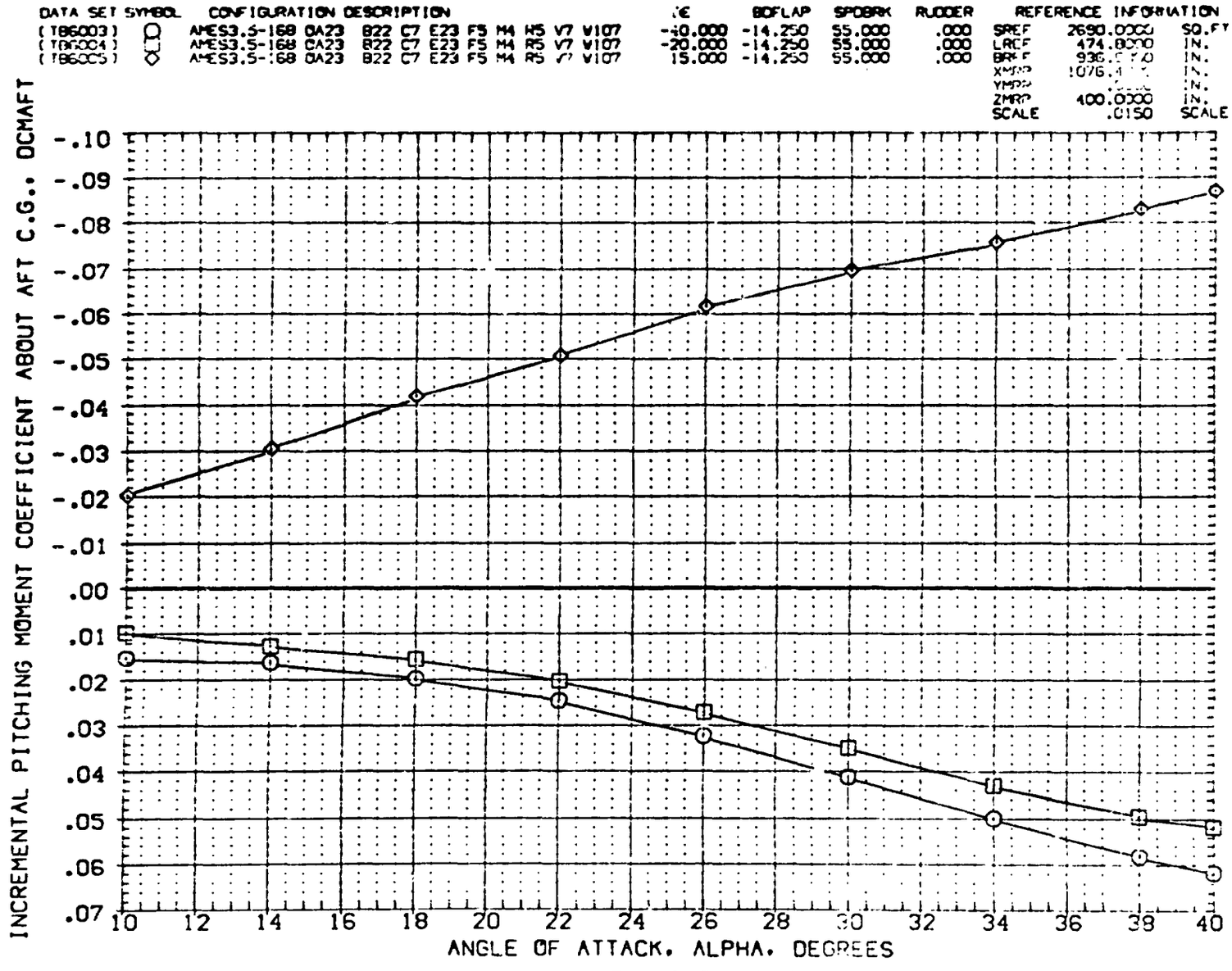


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6004)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6005)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

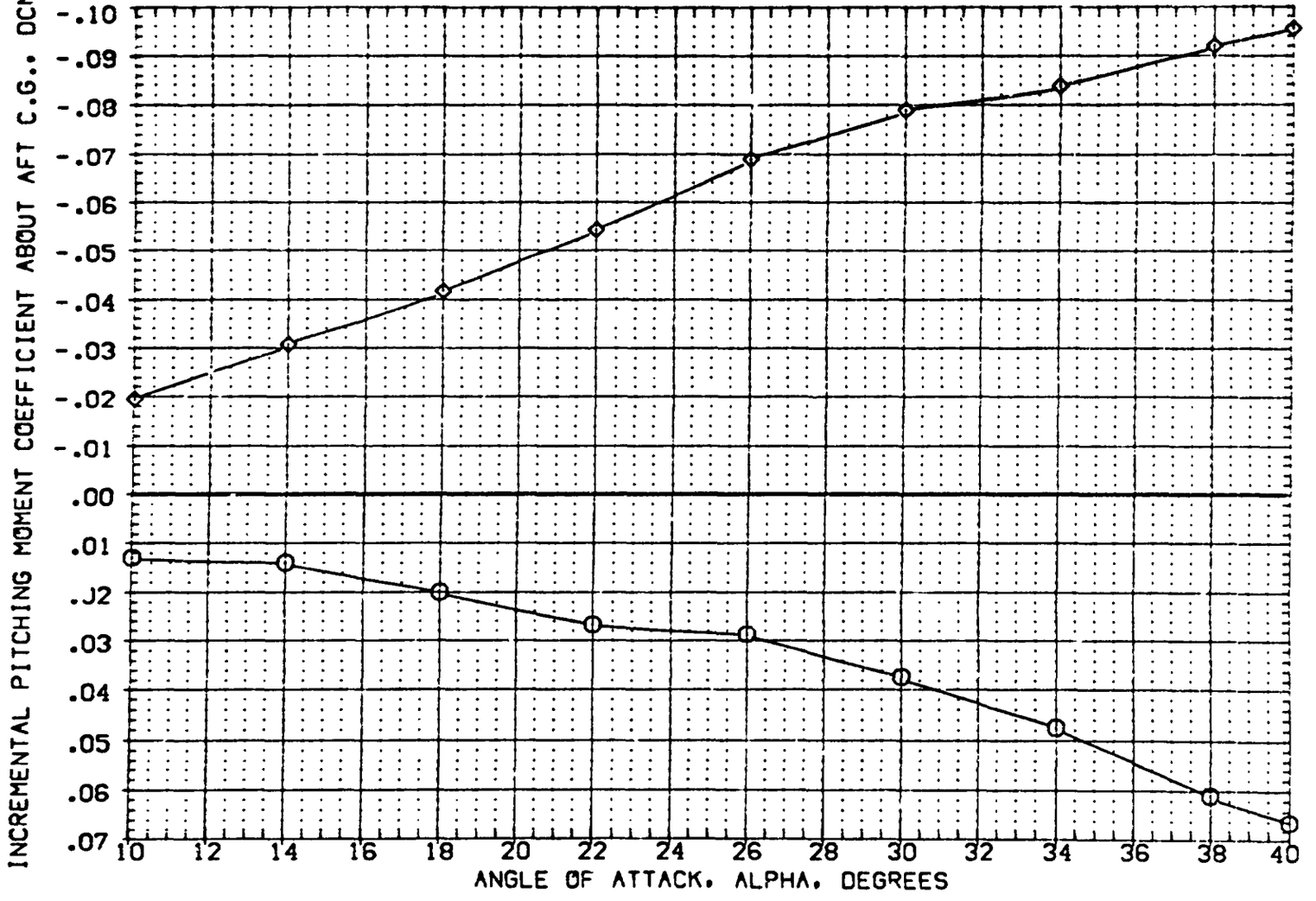


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(U86005)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.0000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

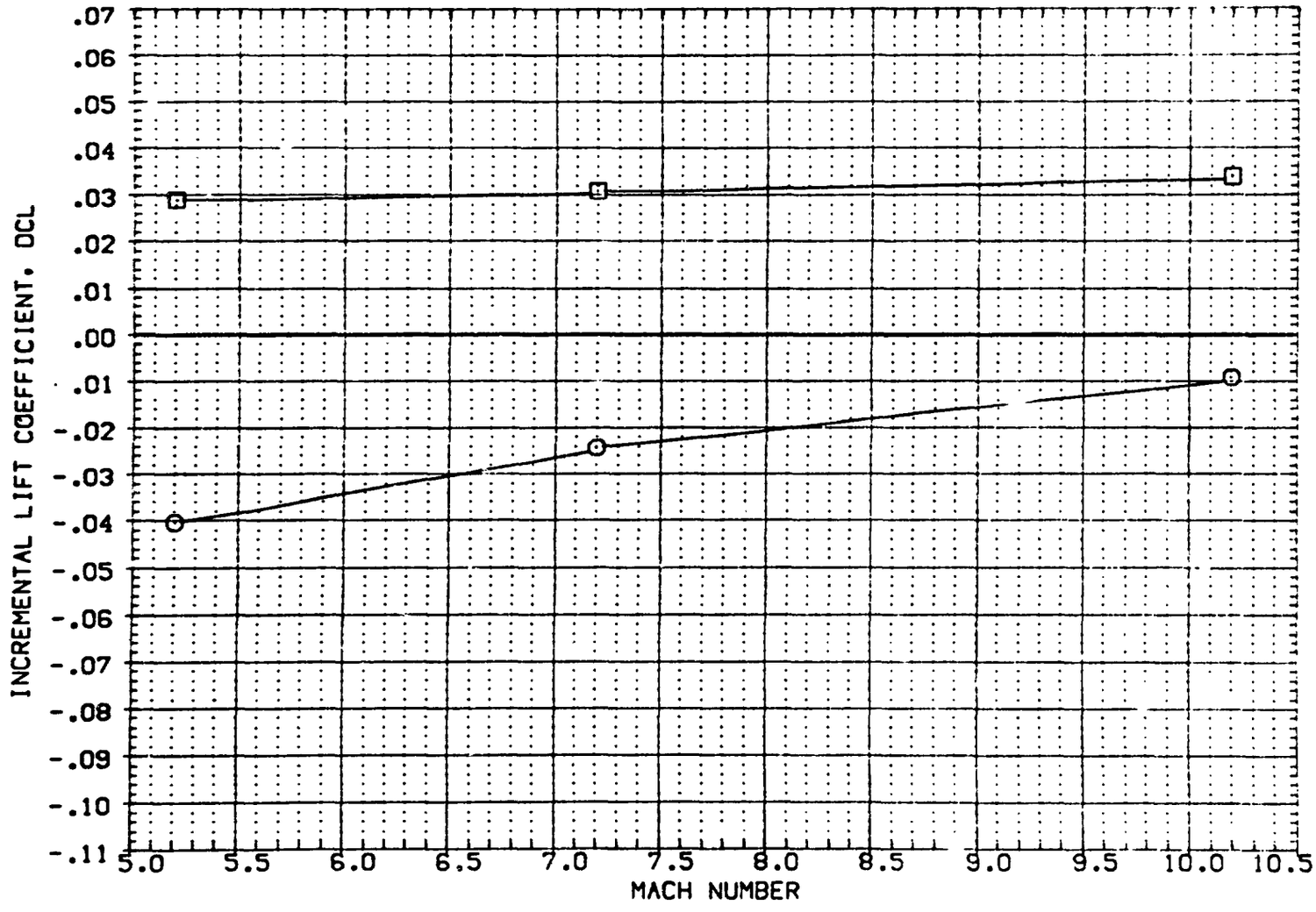


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

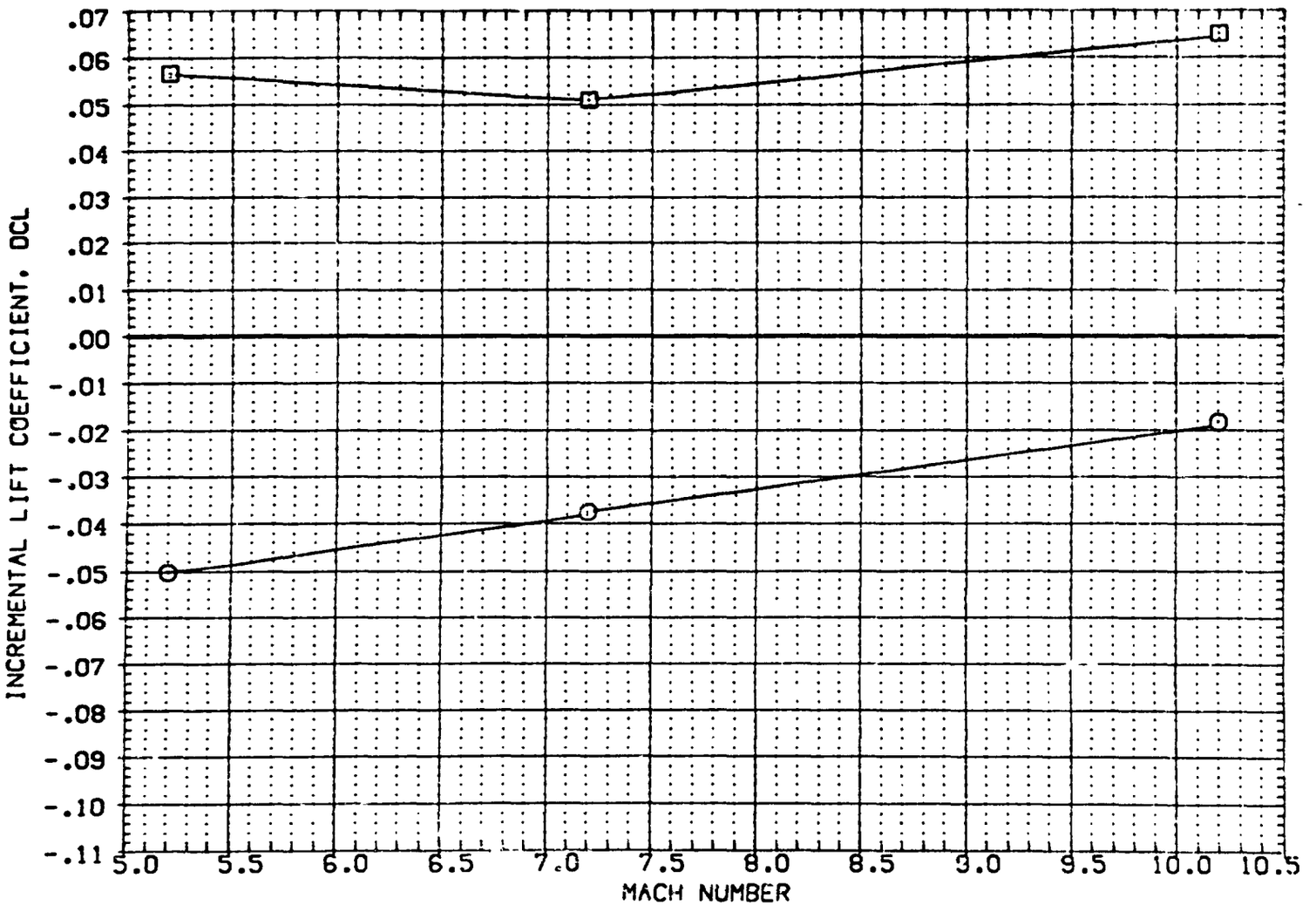


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

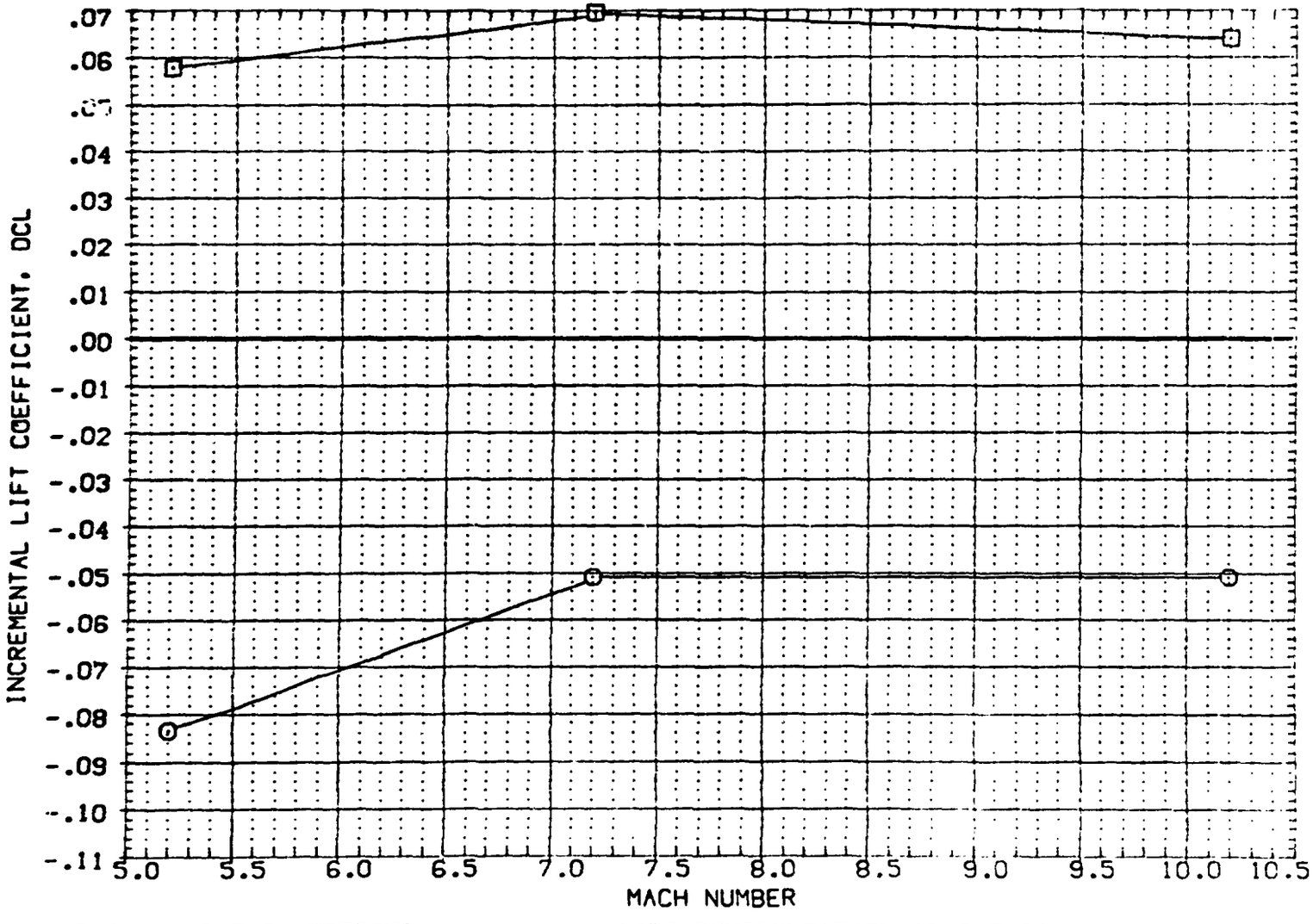


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

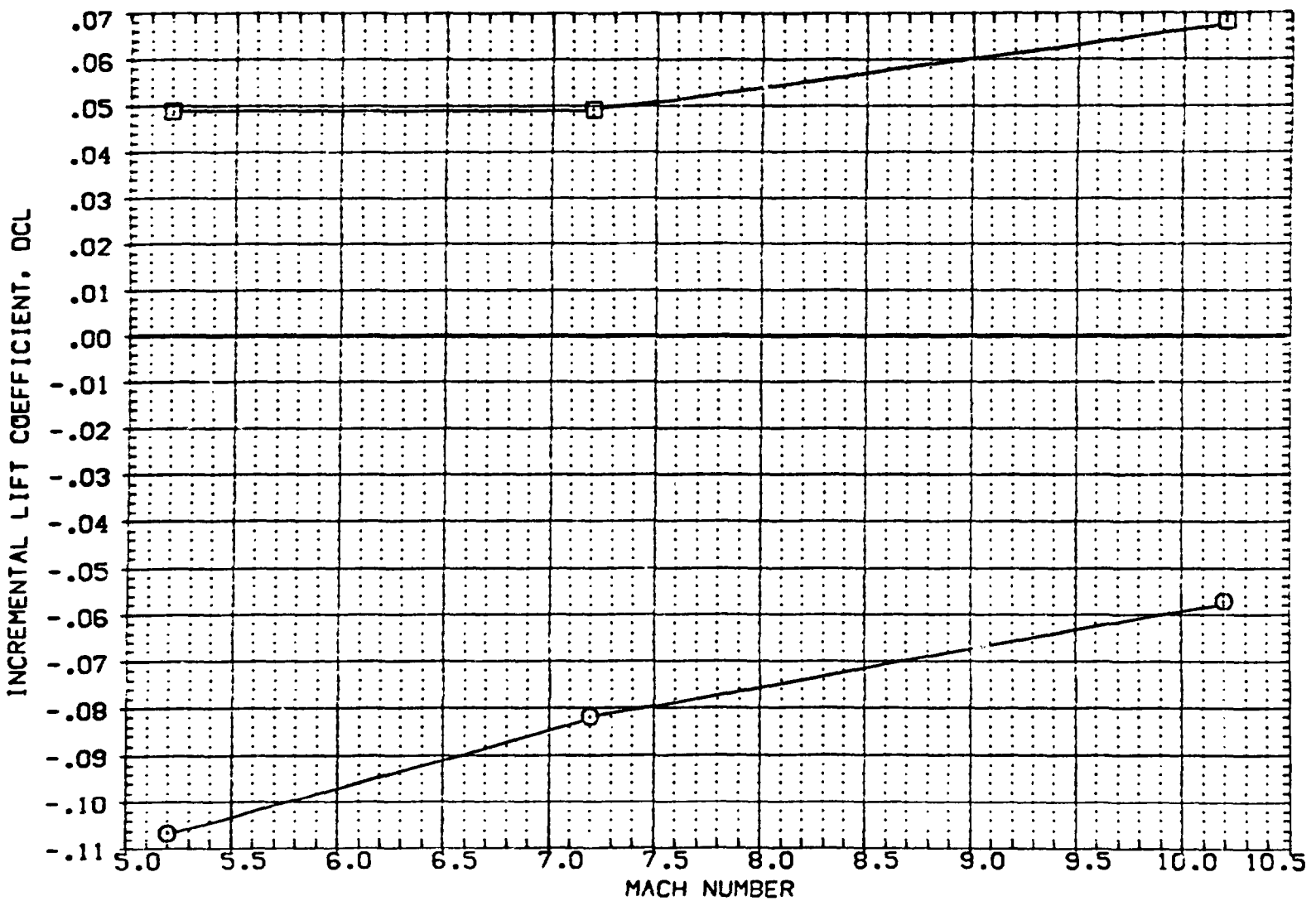


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

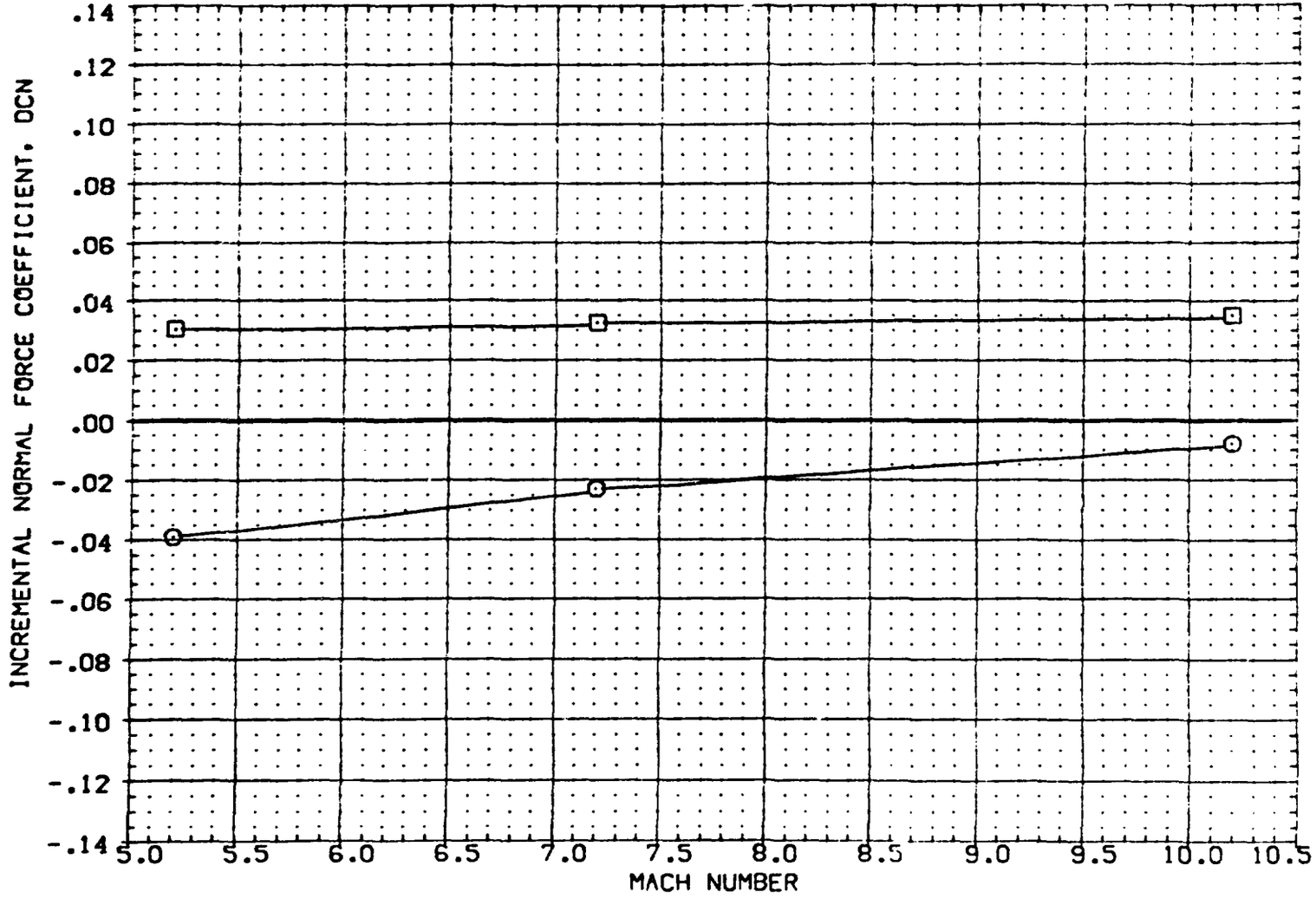


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

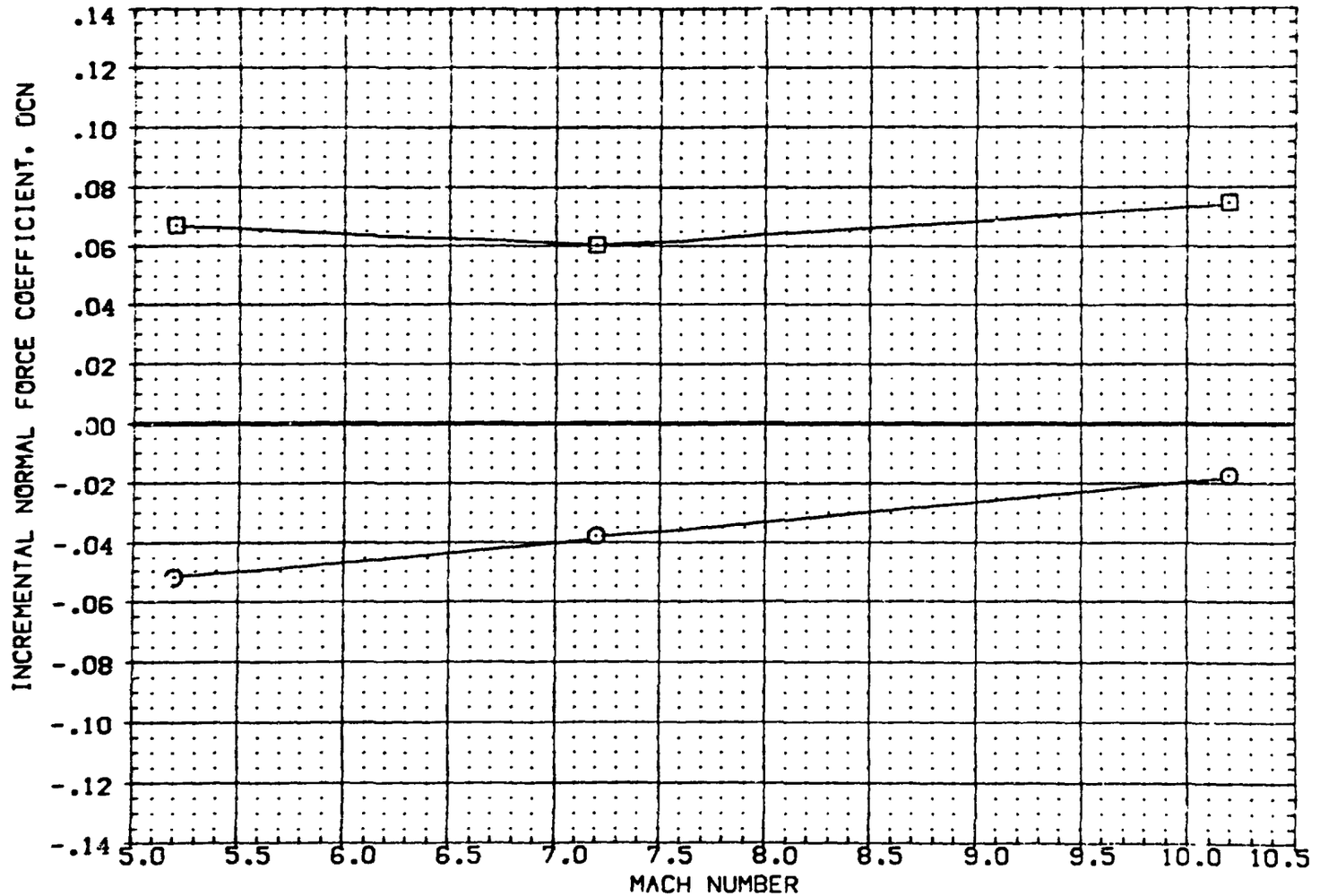


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOORK	RUDDER
(U86003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

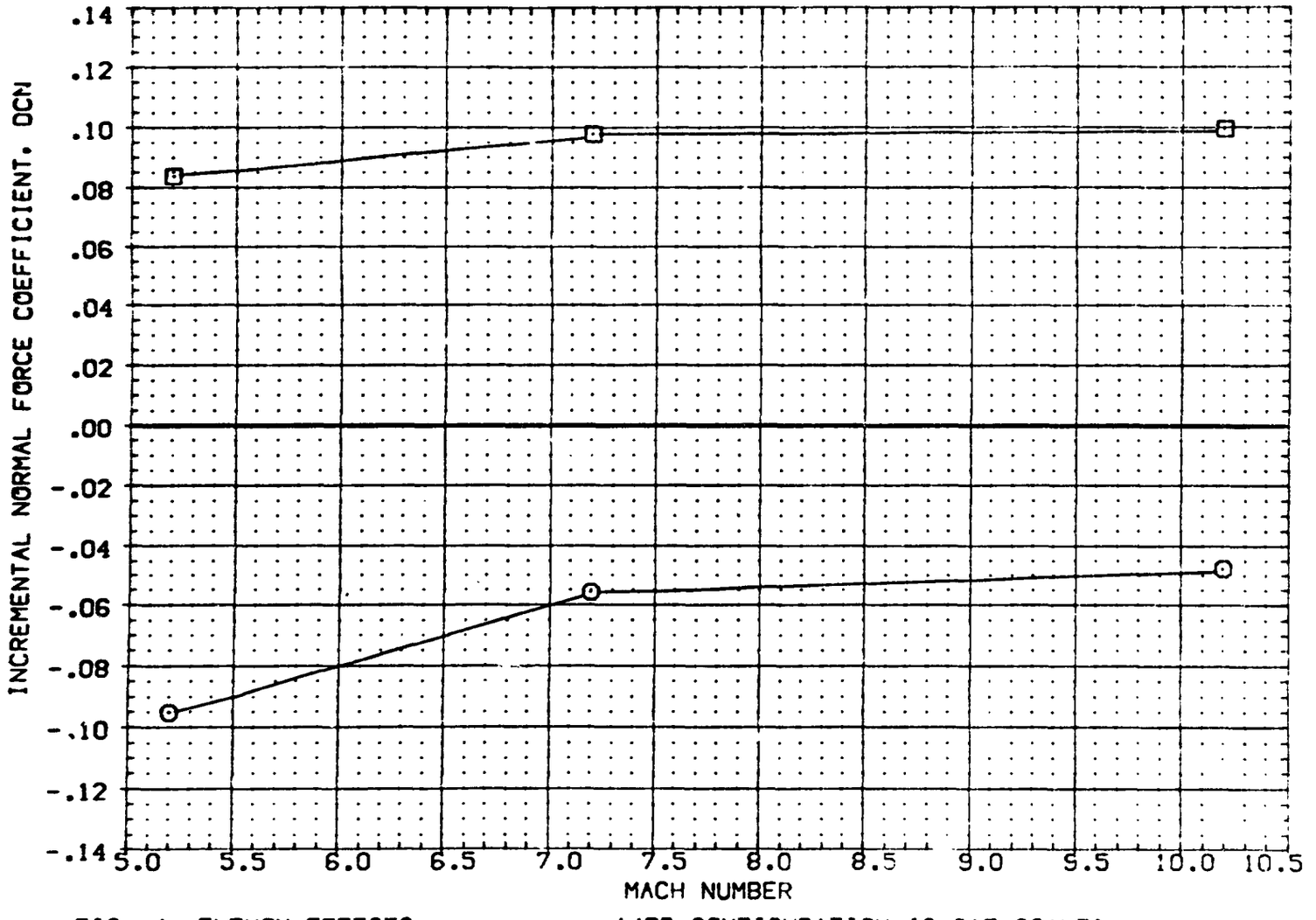


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.5800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

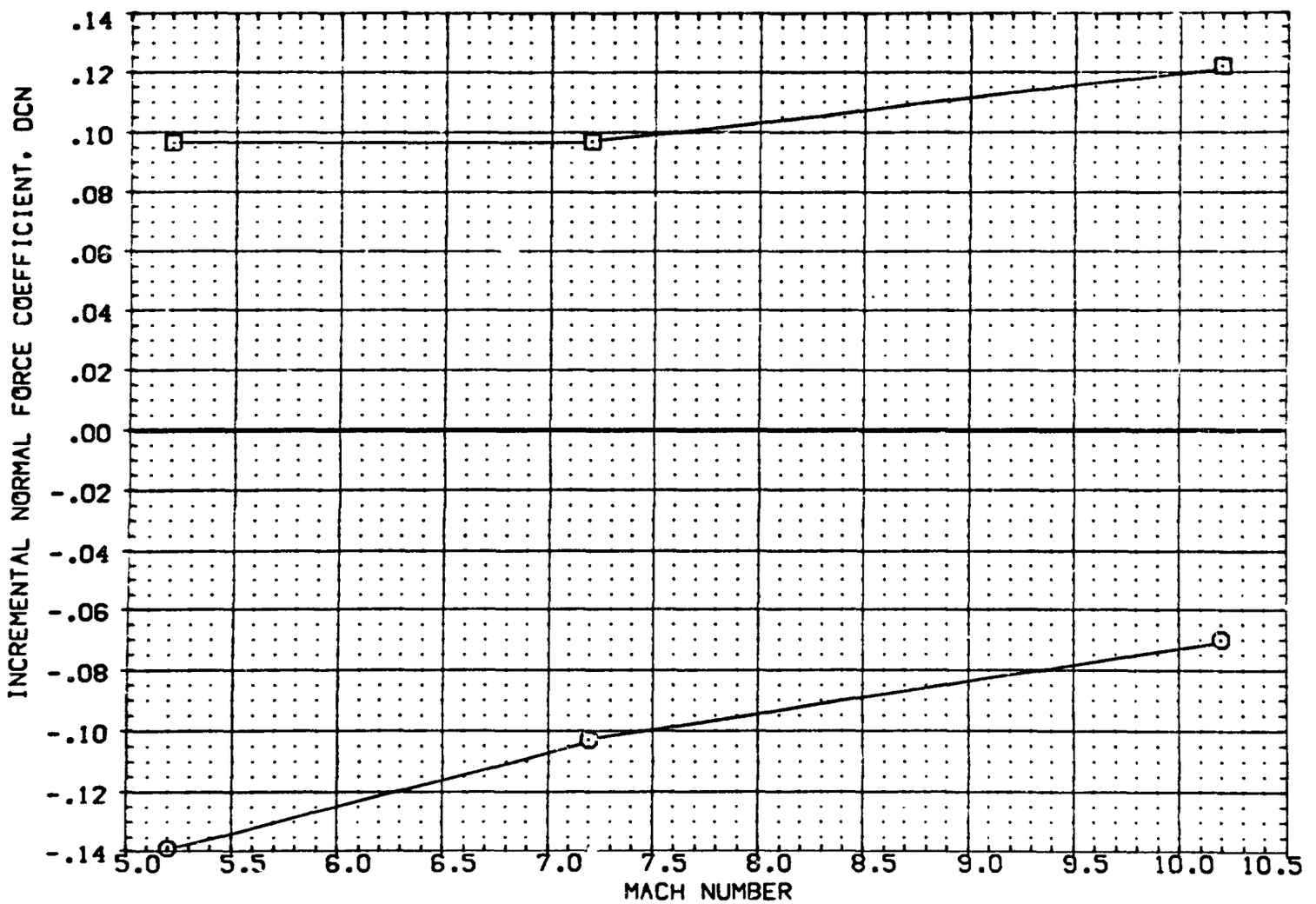


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(U86003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

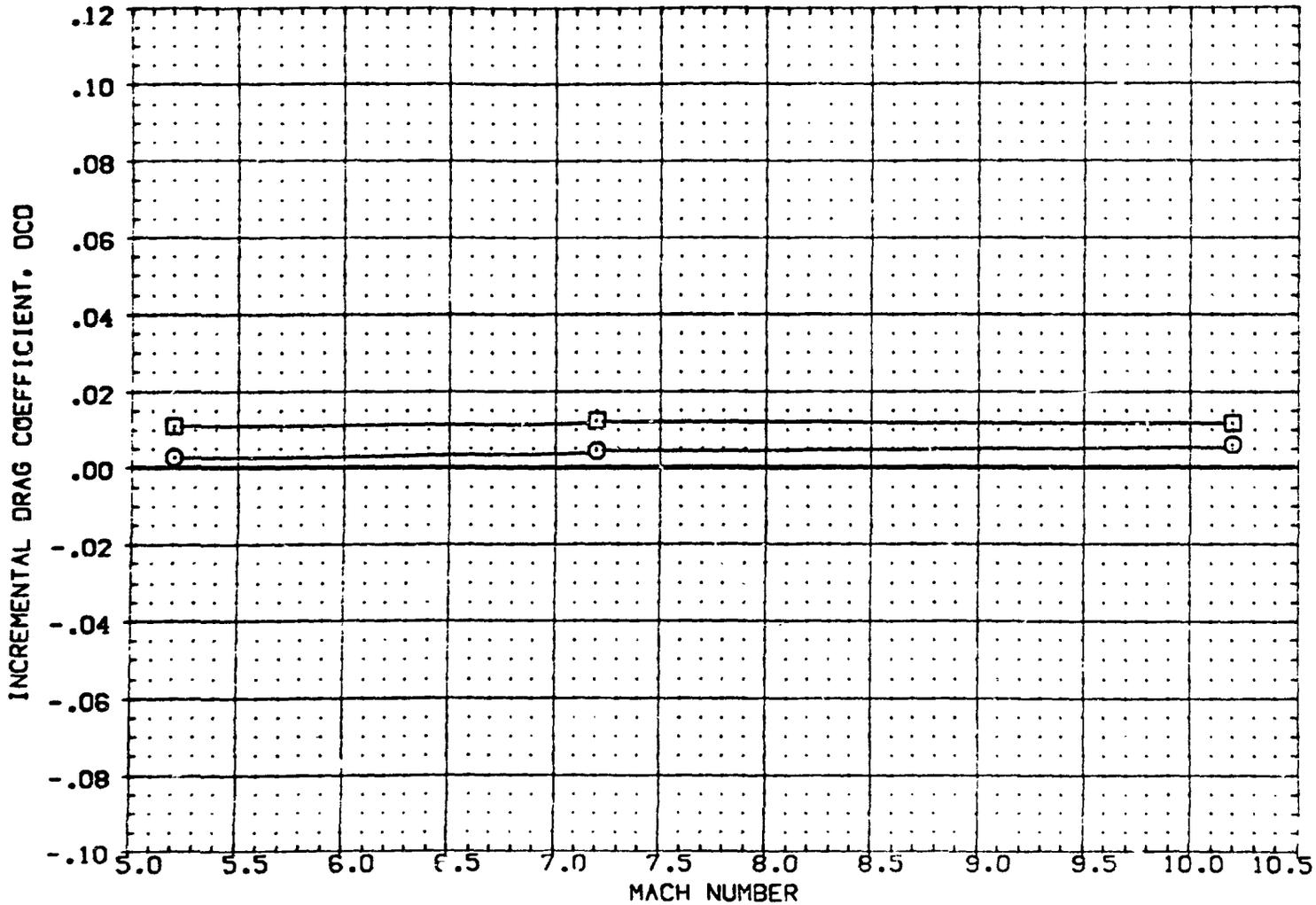


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A) ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

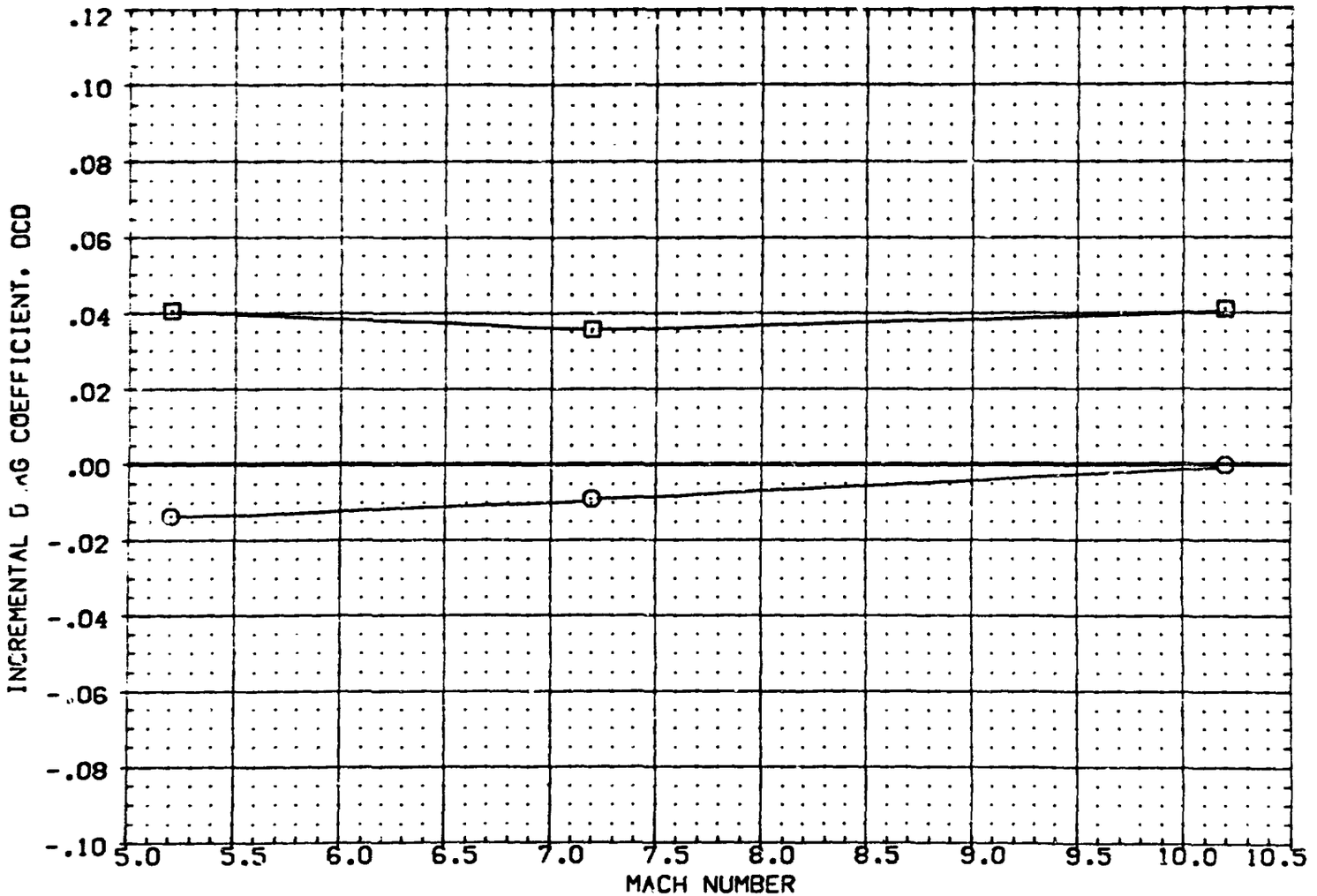


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

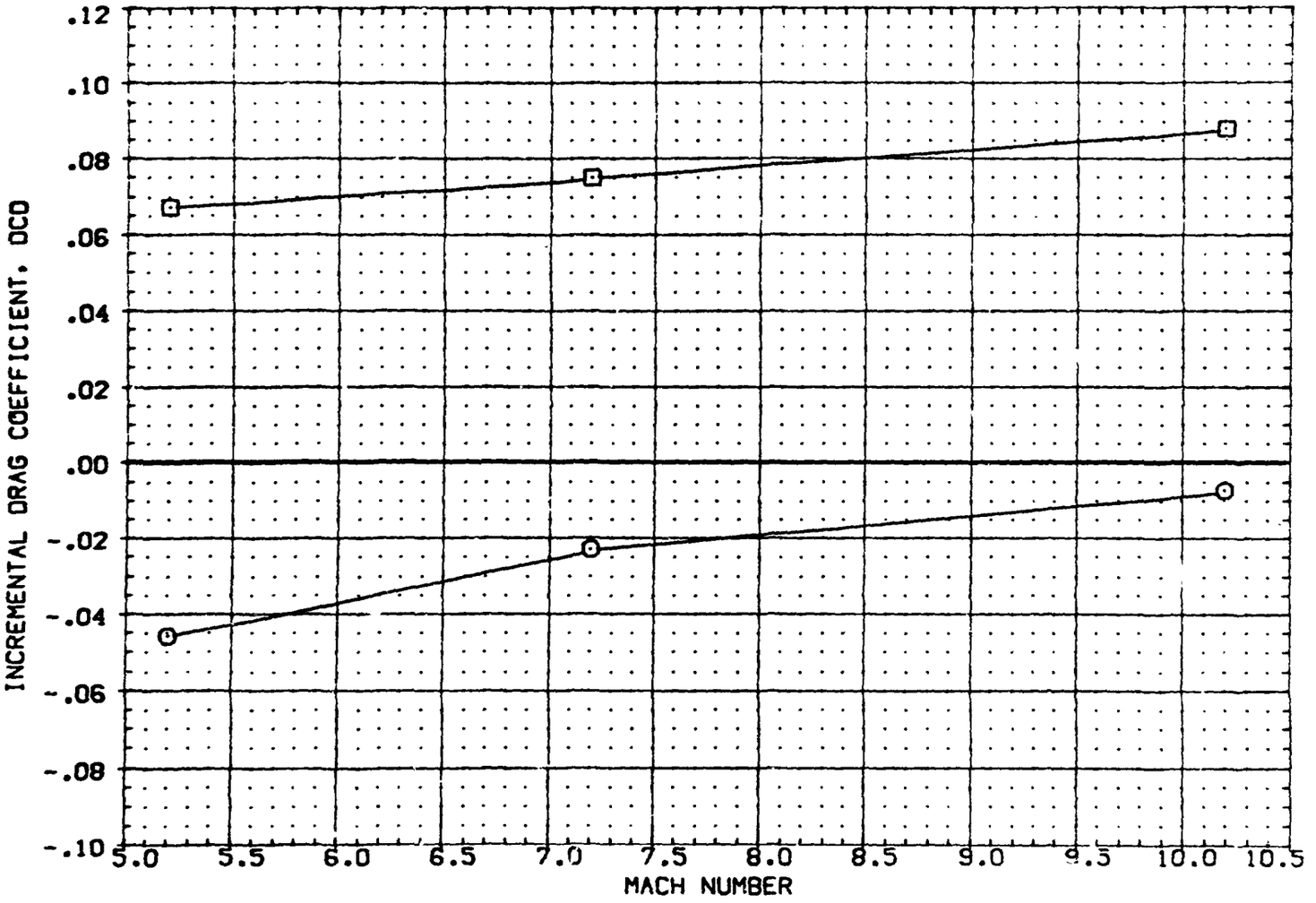


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(U86003)	⊡	AMES3.5-168 GA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	⊟	AMES3.5-168 GA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

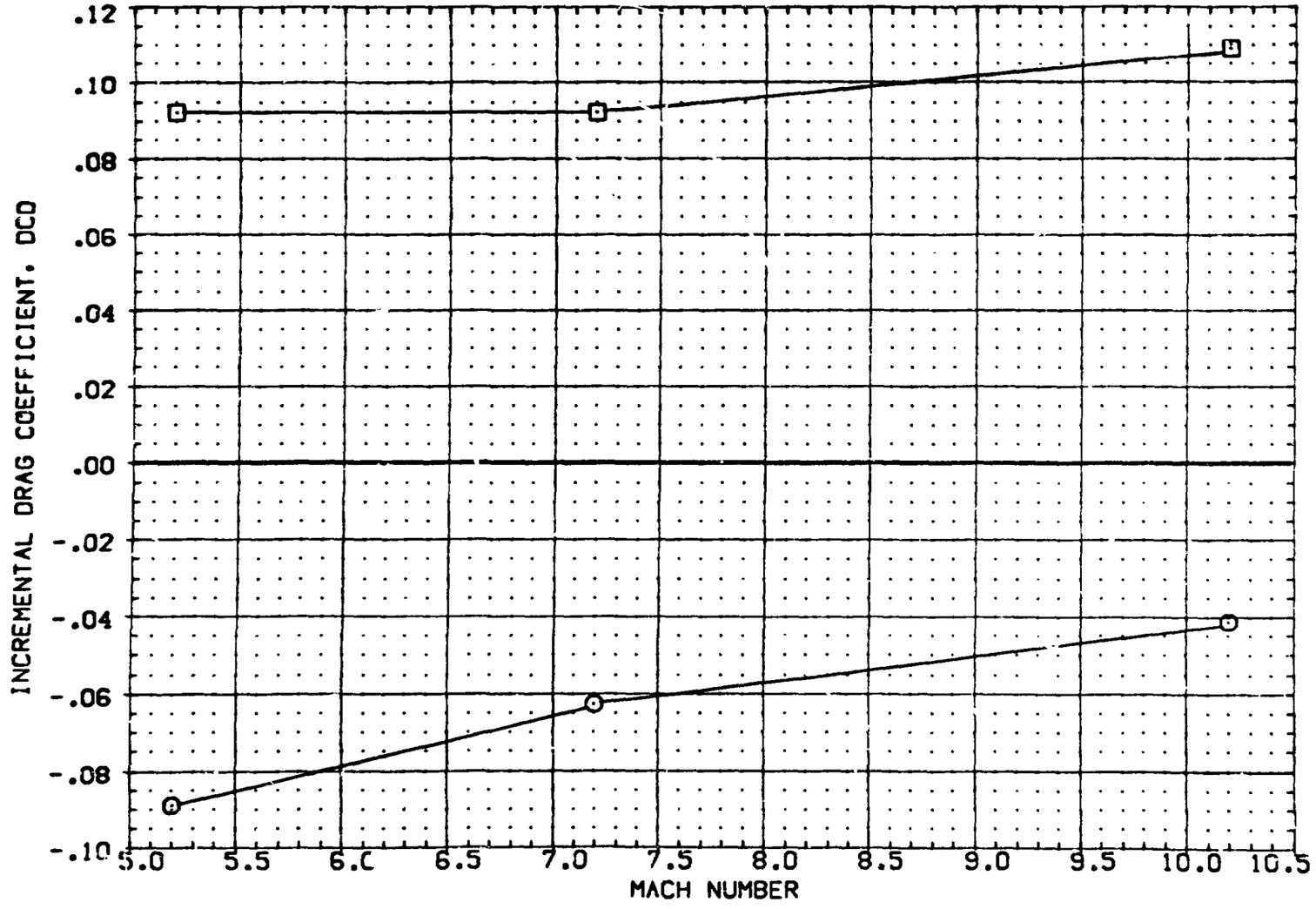


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)	☐	AMES3.5-168 BA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	☐	AMES3.5-168 BA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

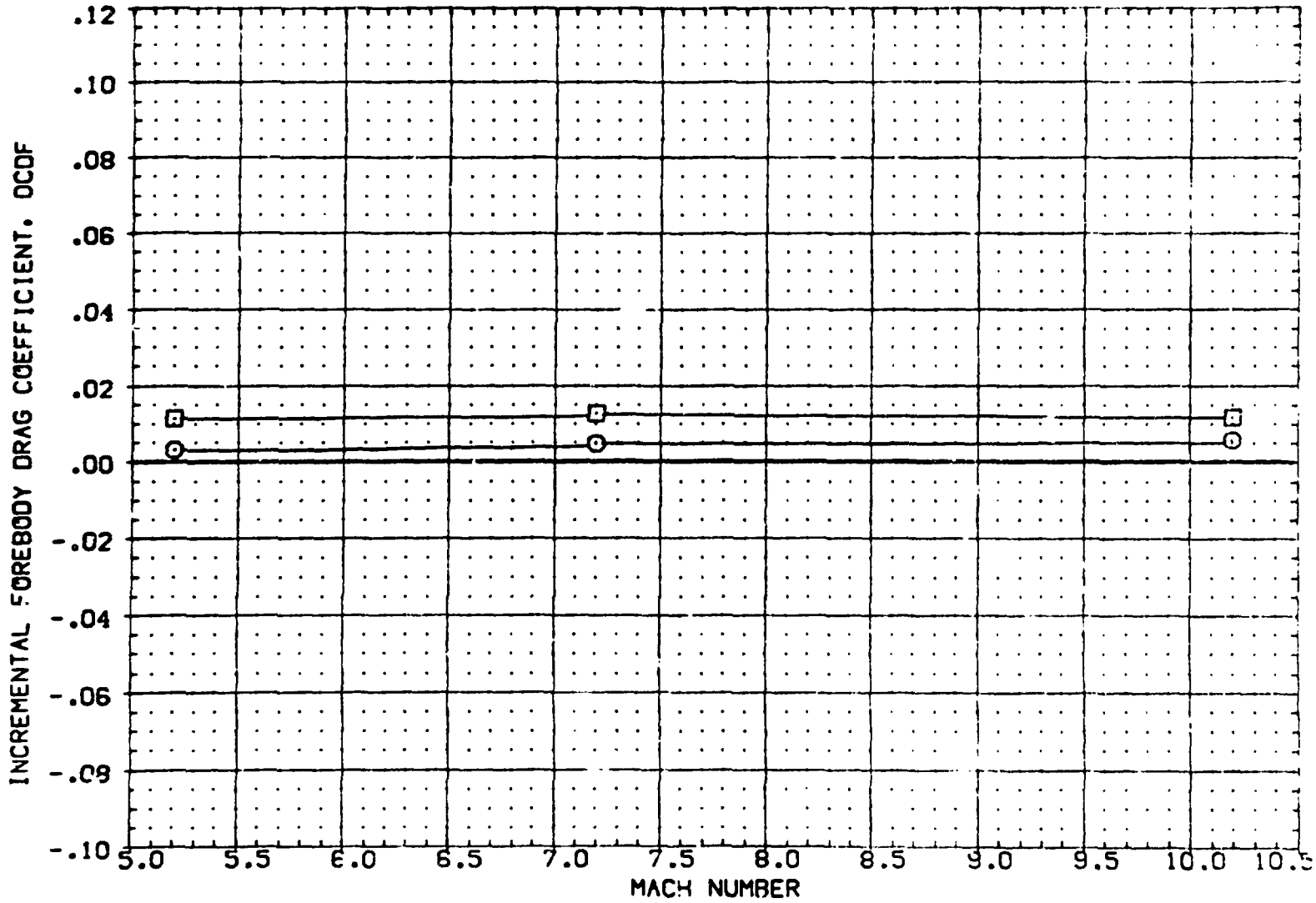


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

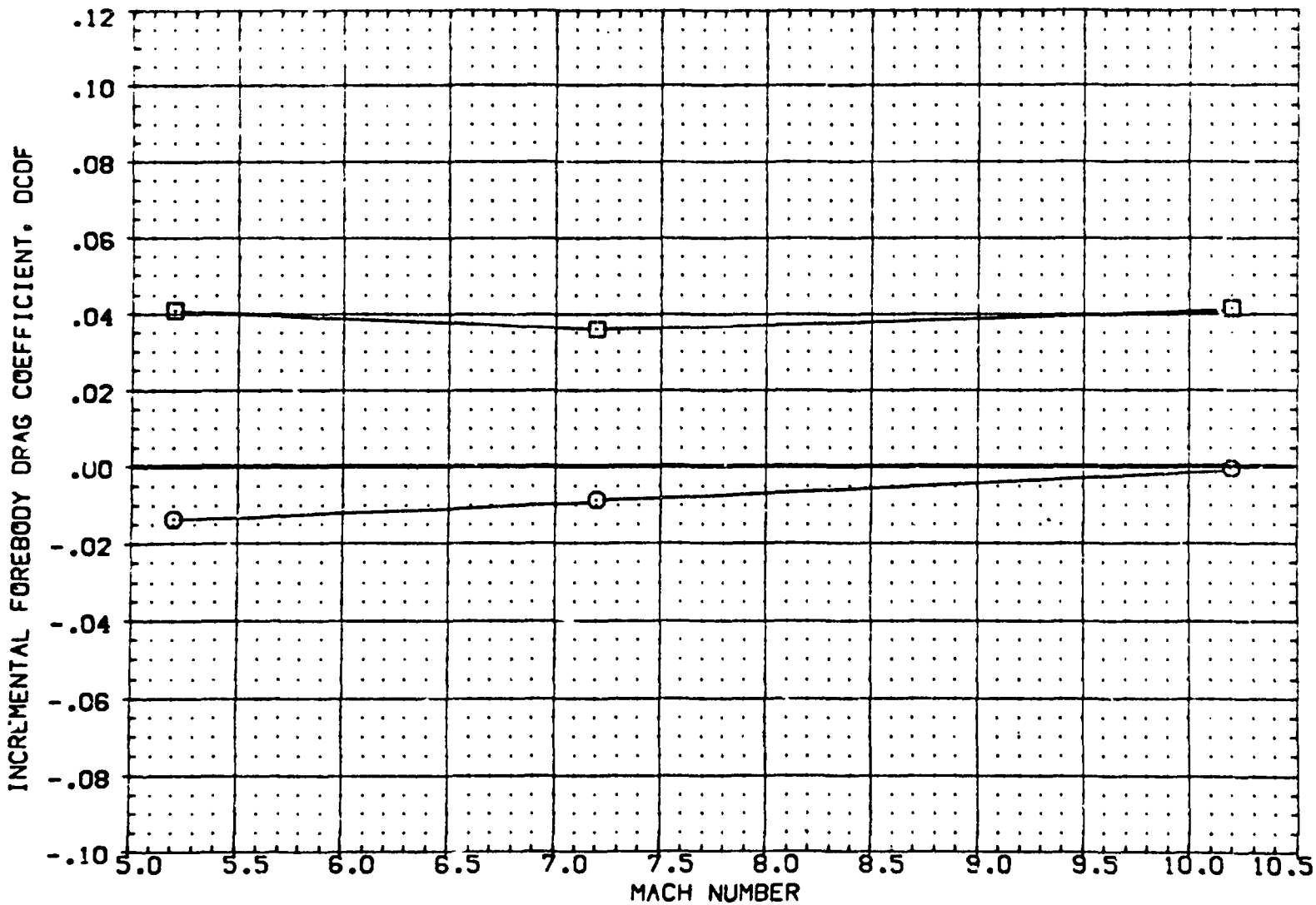


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER
(U86003)	⊡	AMES3.5-168 0A23 B22 C7 E23 FS M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	⊟	AMES3.5-168 0A23 B22 C7 E23 FS M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

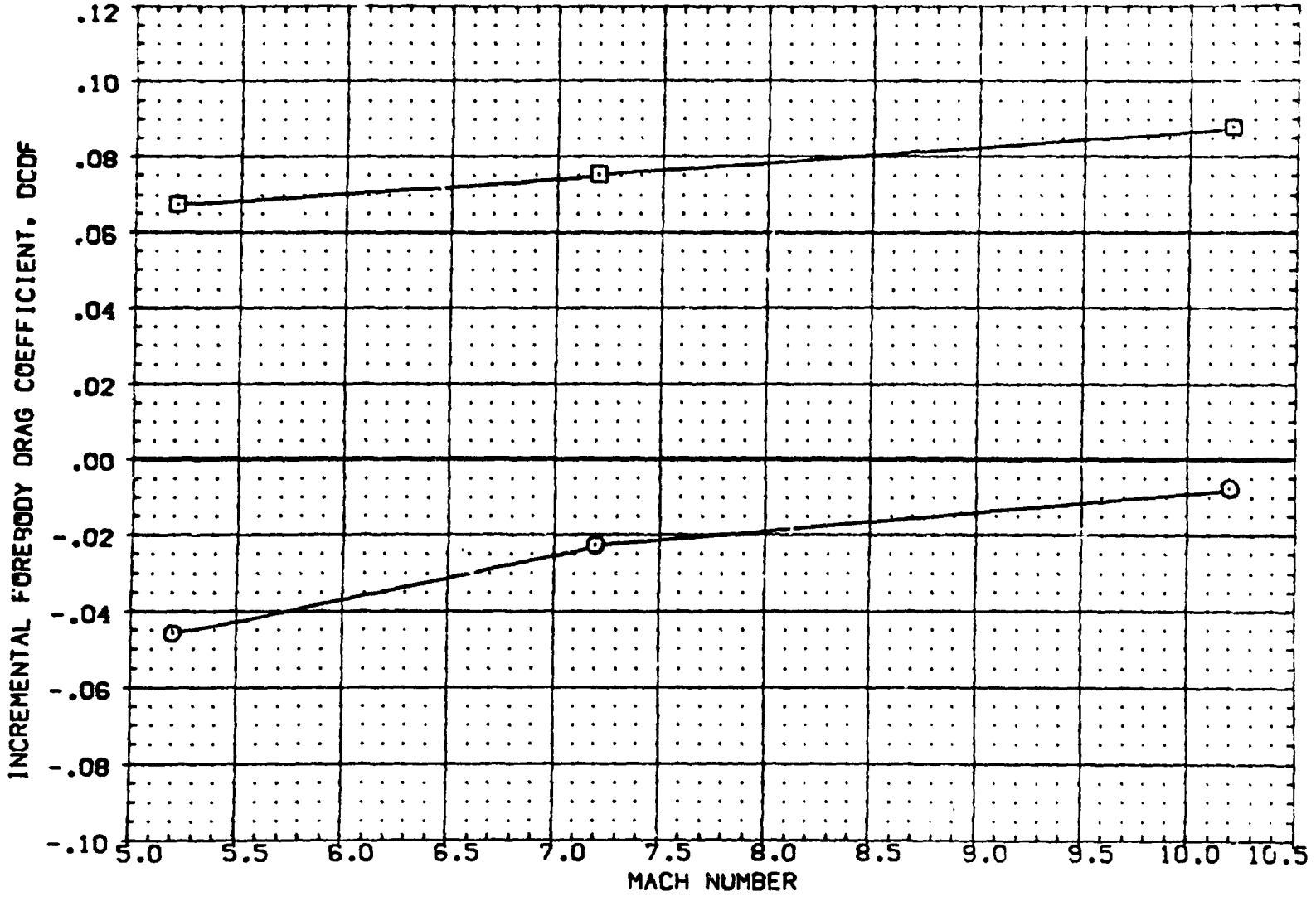


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(U86003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

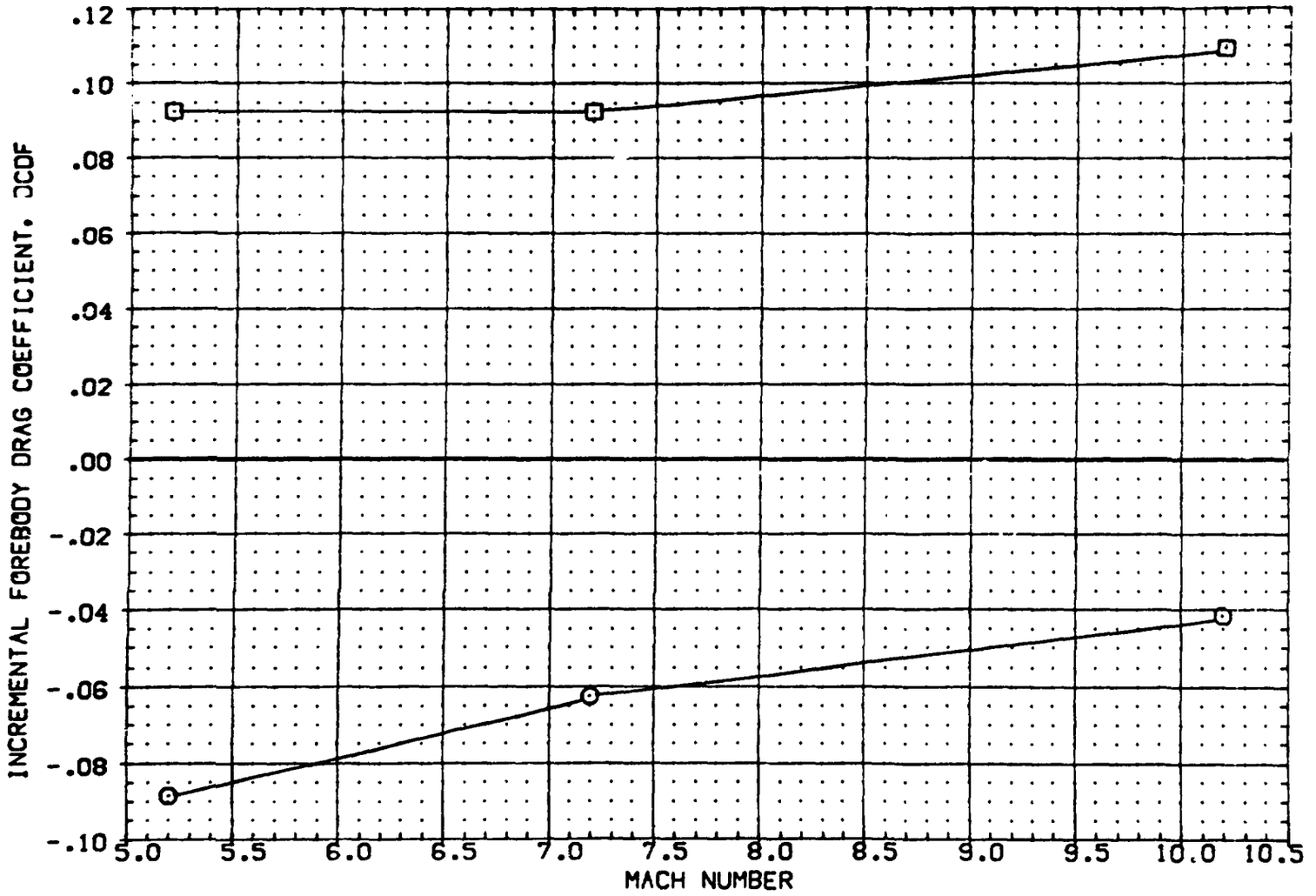


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

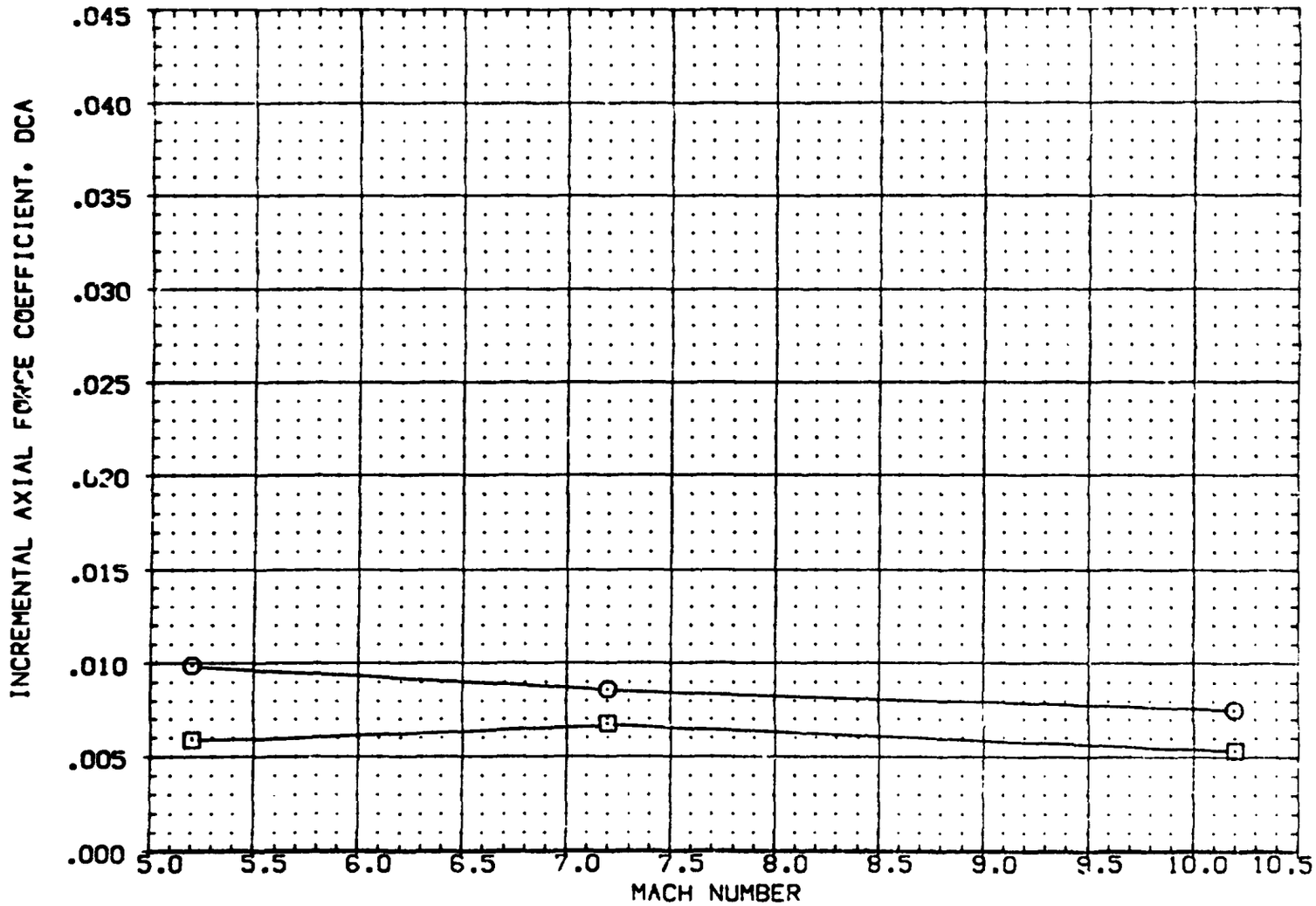


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)	⊡	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	⊟	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

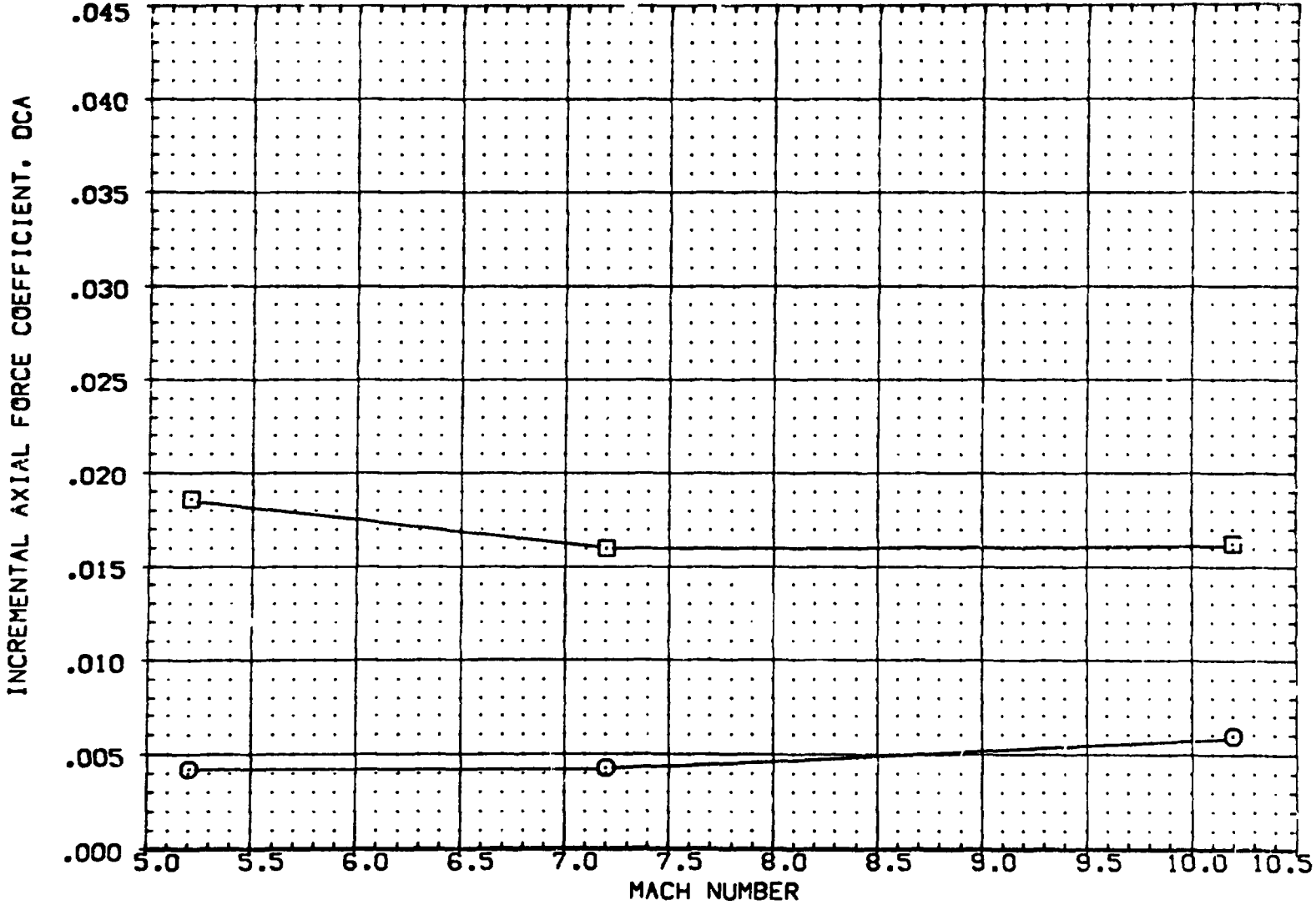


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(U86003)	8	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	8	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

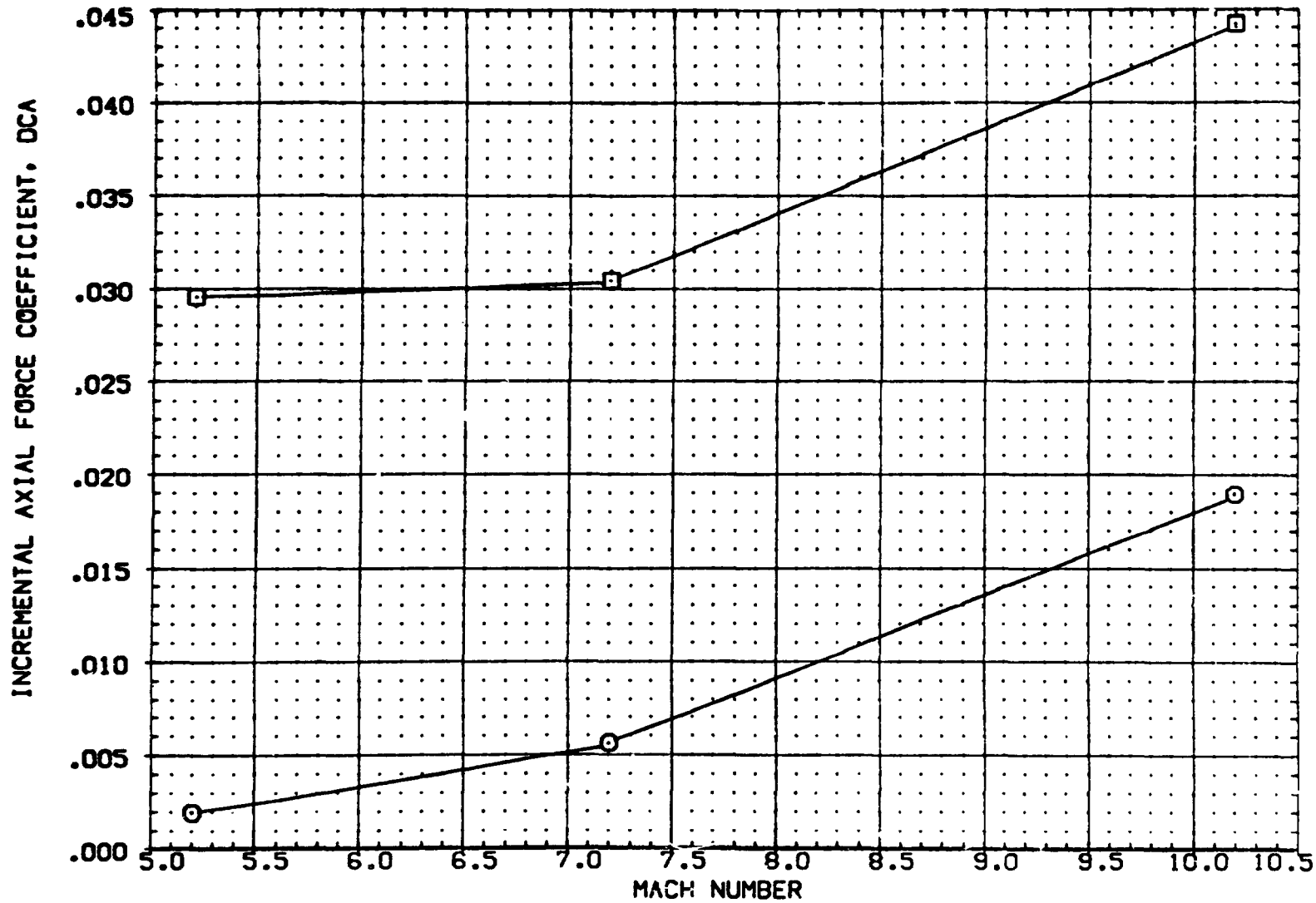


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

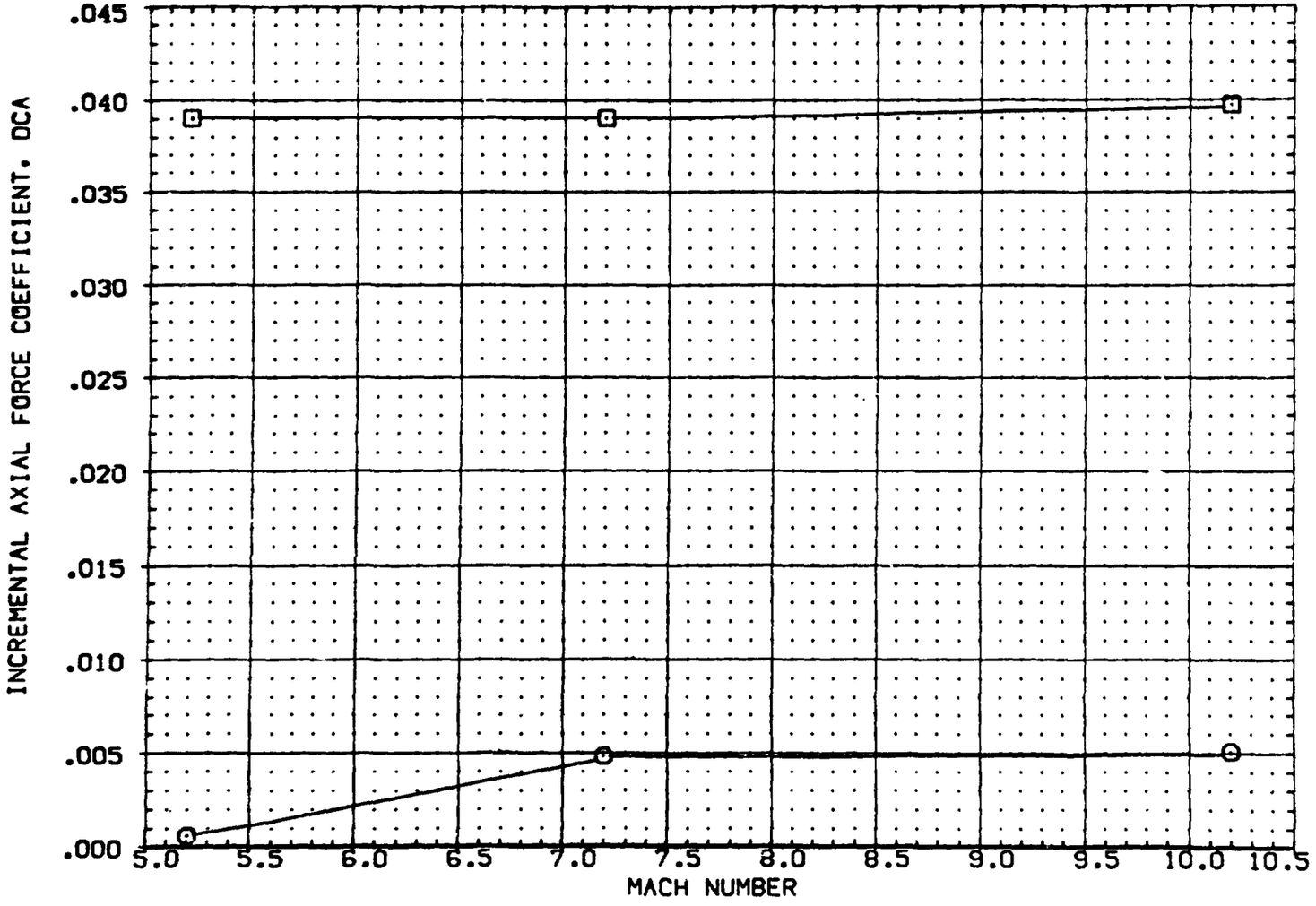


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

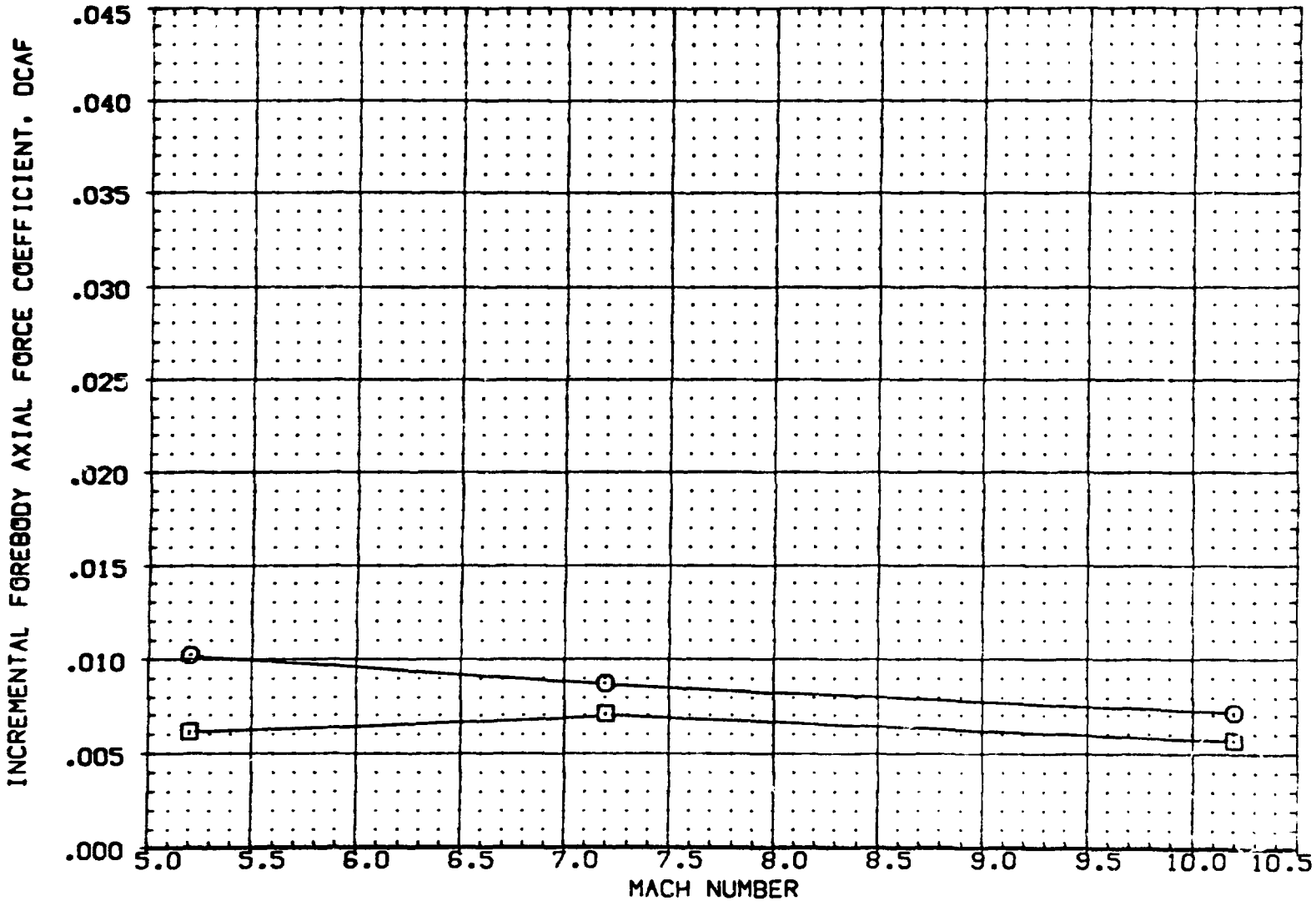


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003) ○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(U86005) □	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

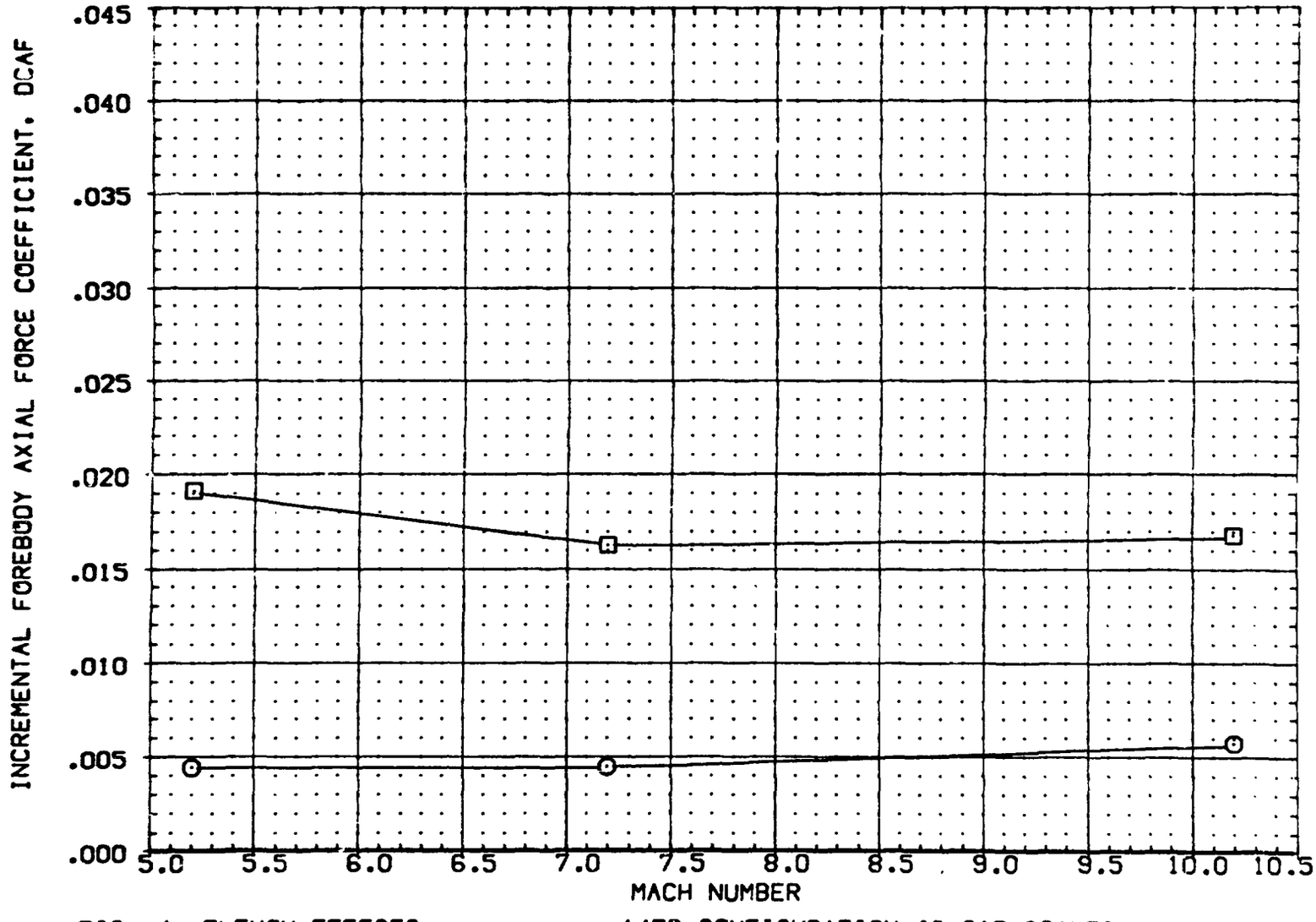


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

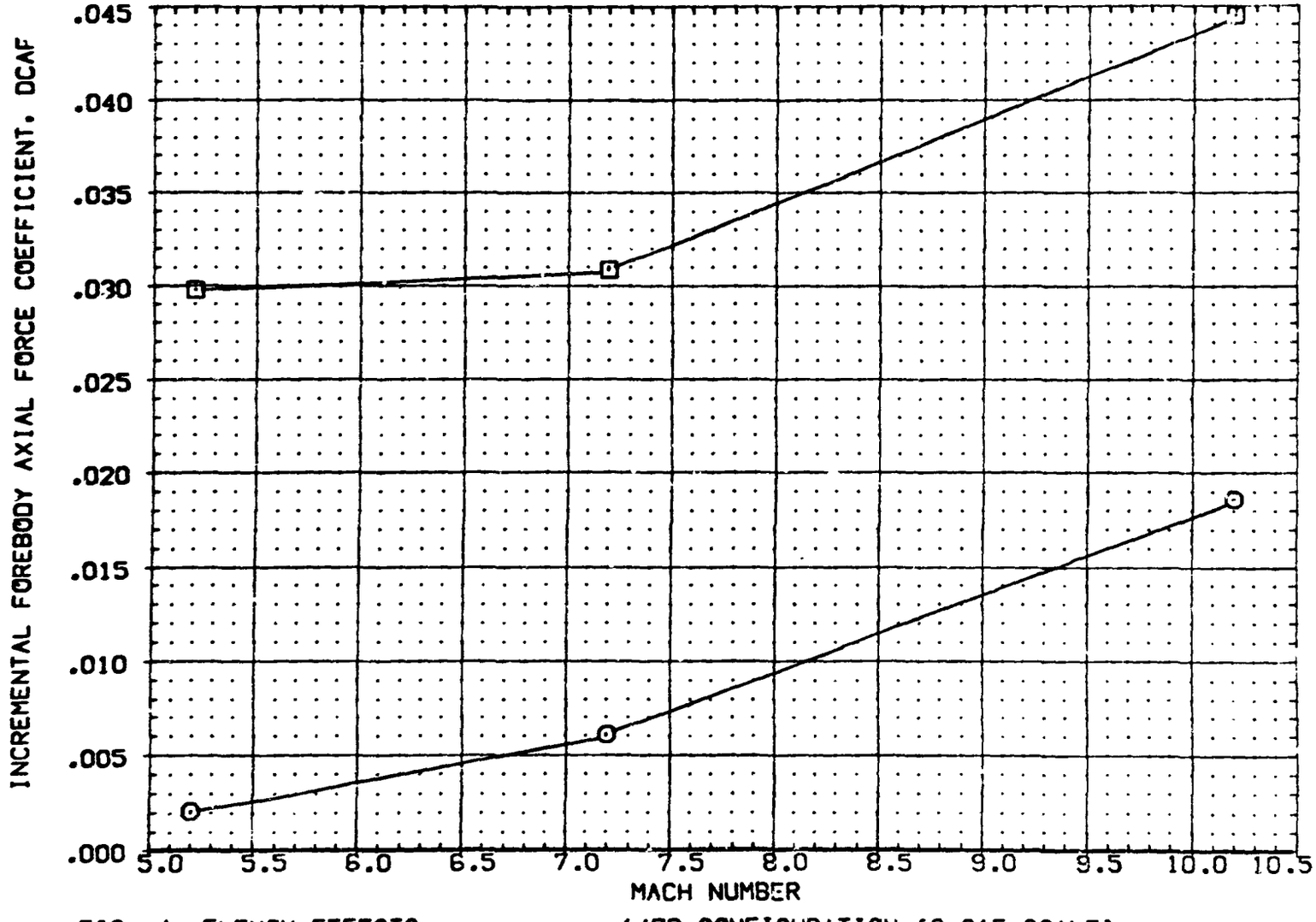


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

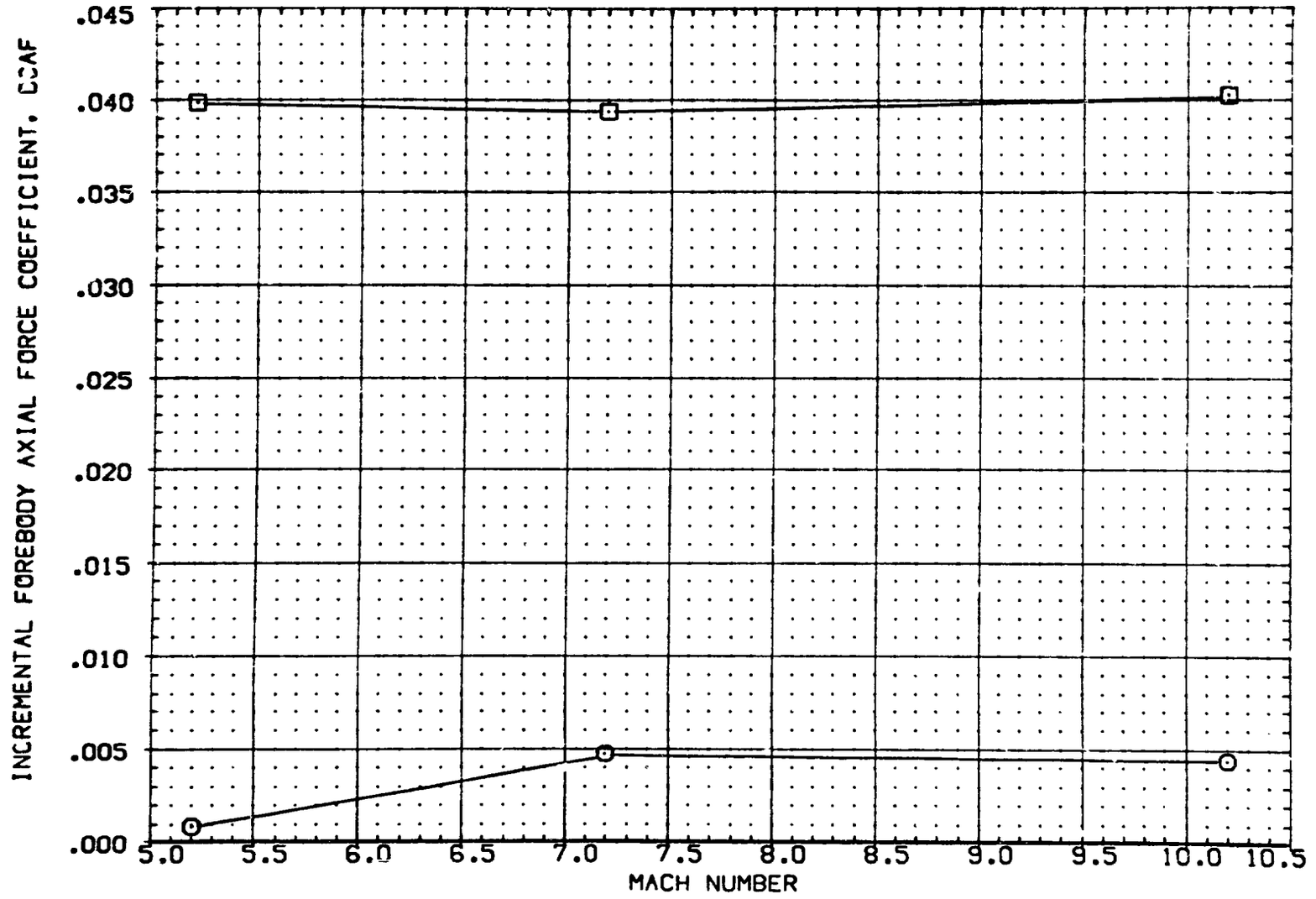


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER
(U86003)		AMES3.5-168 BA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)		AMES3.5-168 BA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

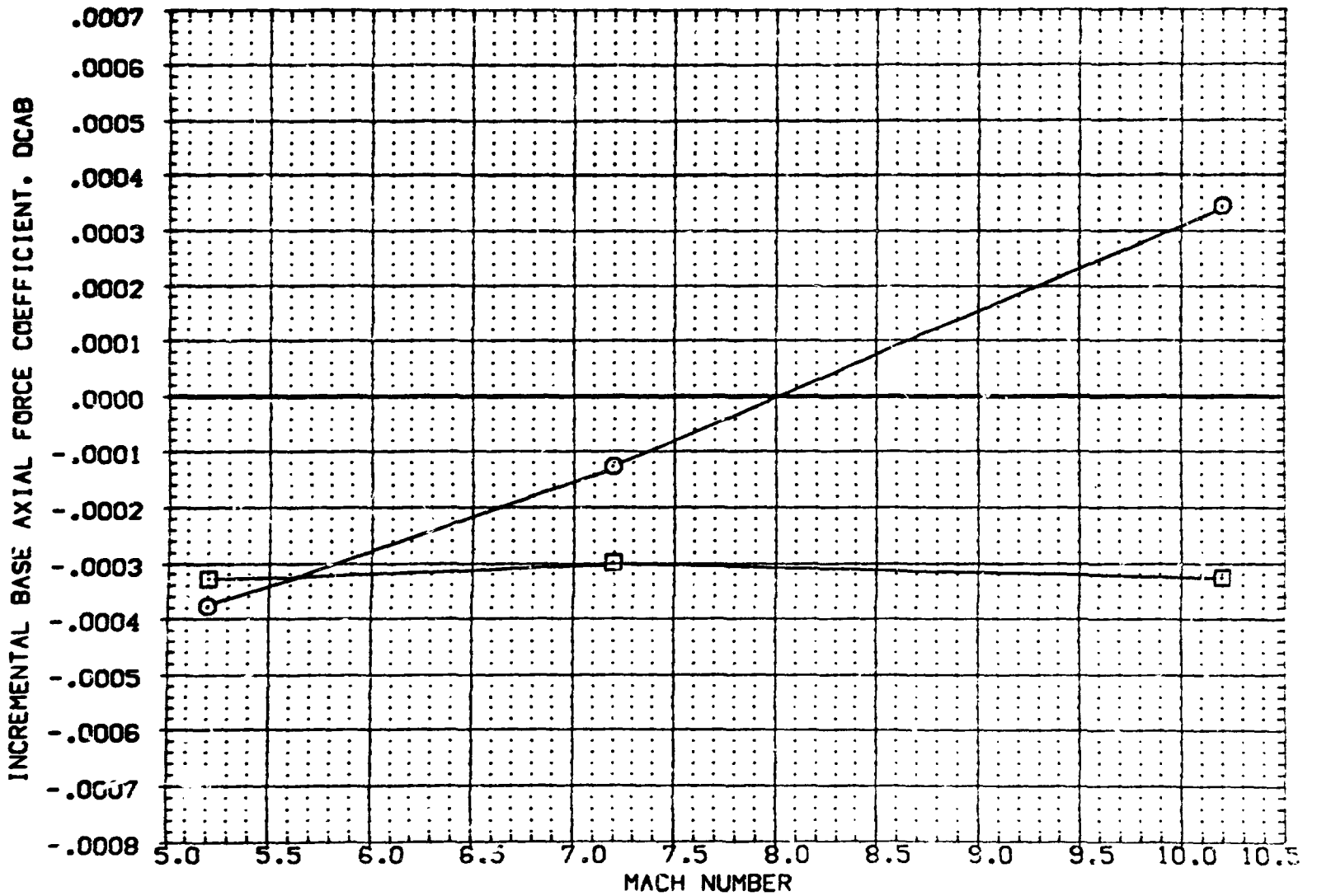


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.00

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

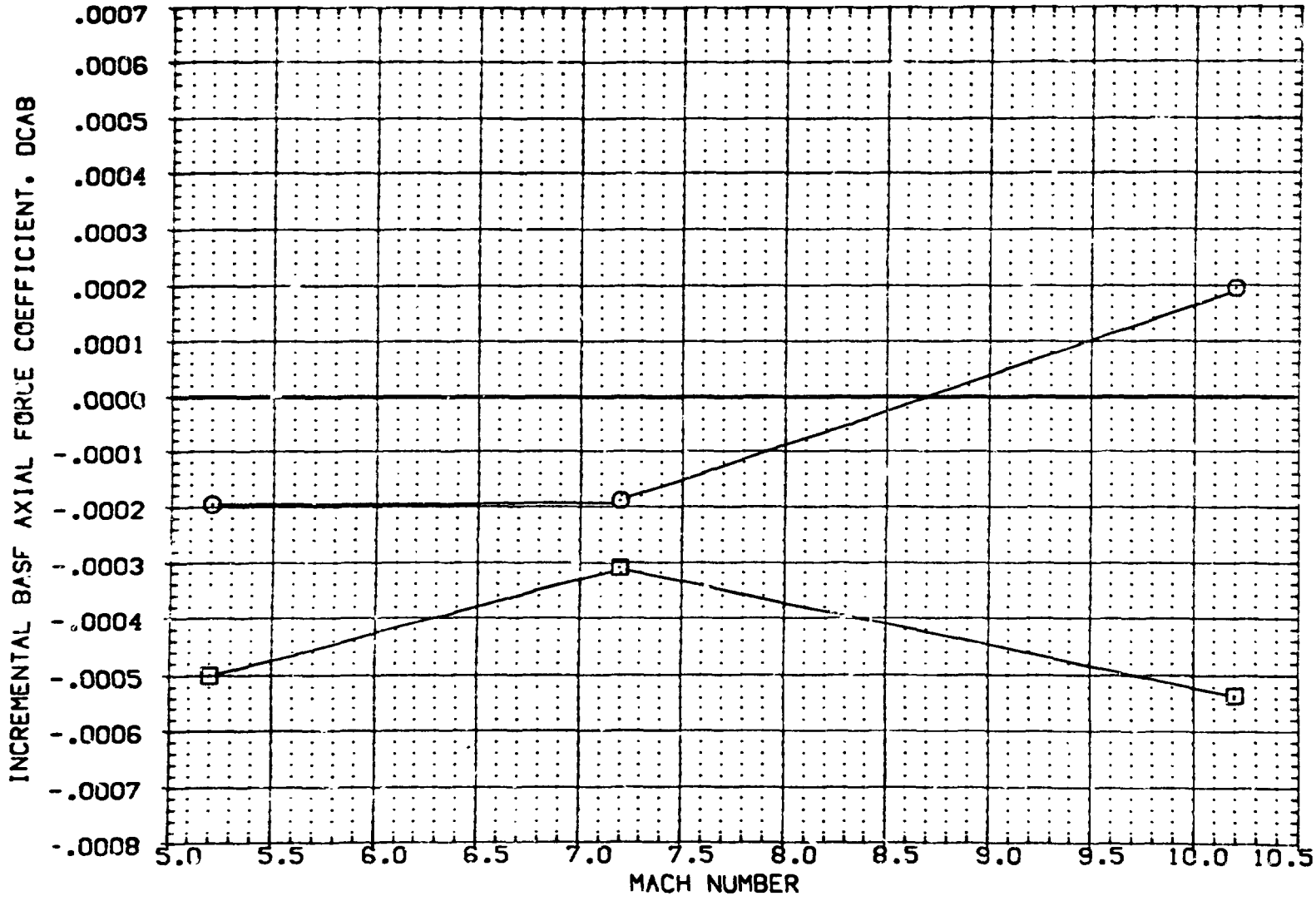


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(086003)	AMES3.5-168 0A23 B22 C7 E23 FS M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(086005)	AMES3.5-168 0A23 B22 C7 E23 FS M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1075.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

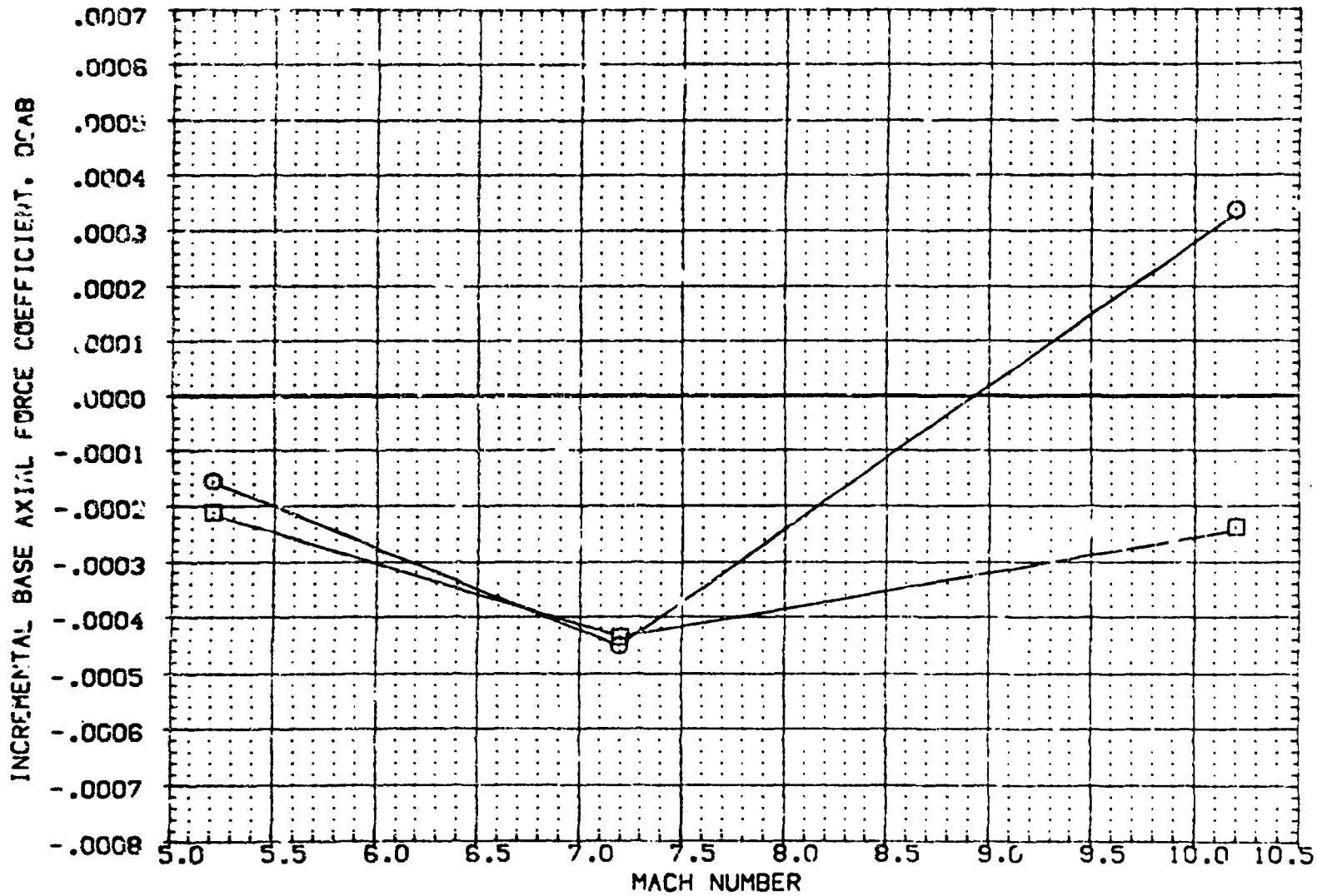


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	100.0000	IN.
SCALE	.0150	SCALE

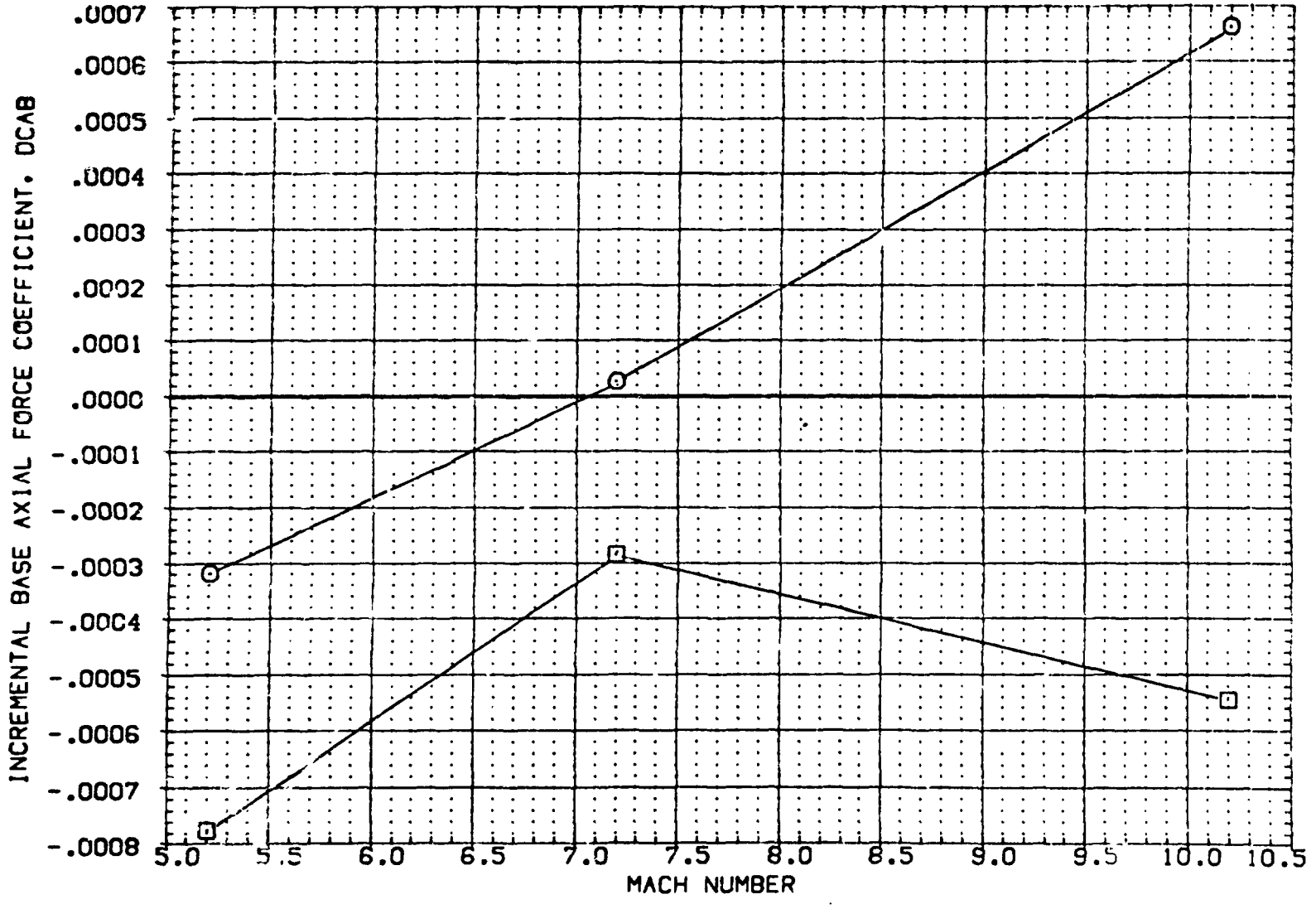


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

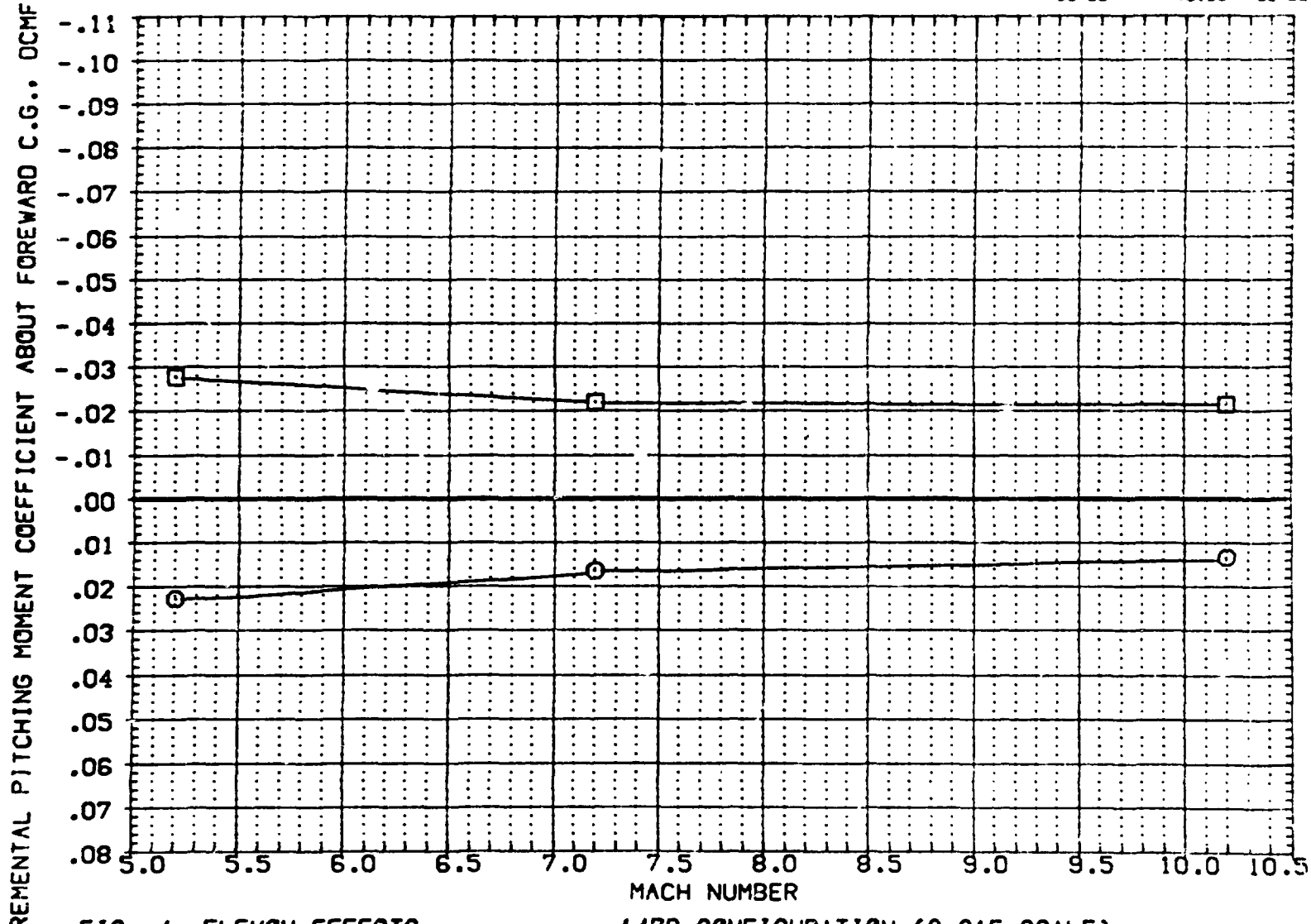


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
[U86003]	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
[U86005]	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

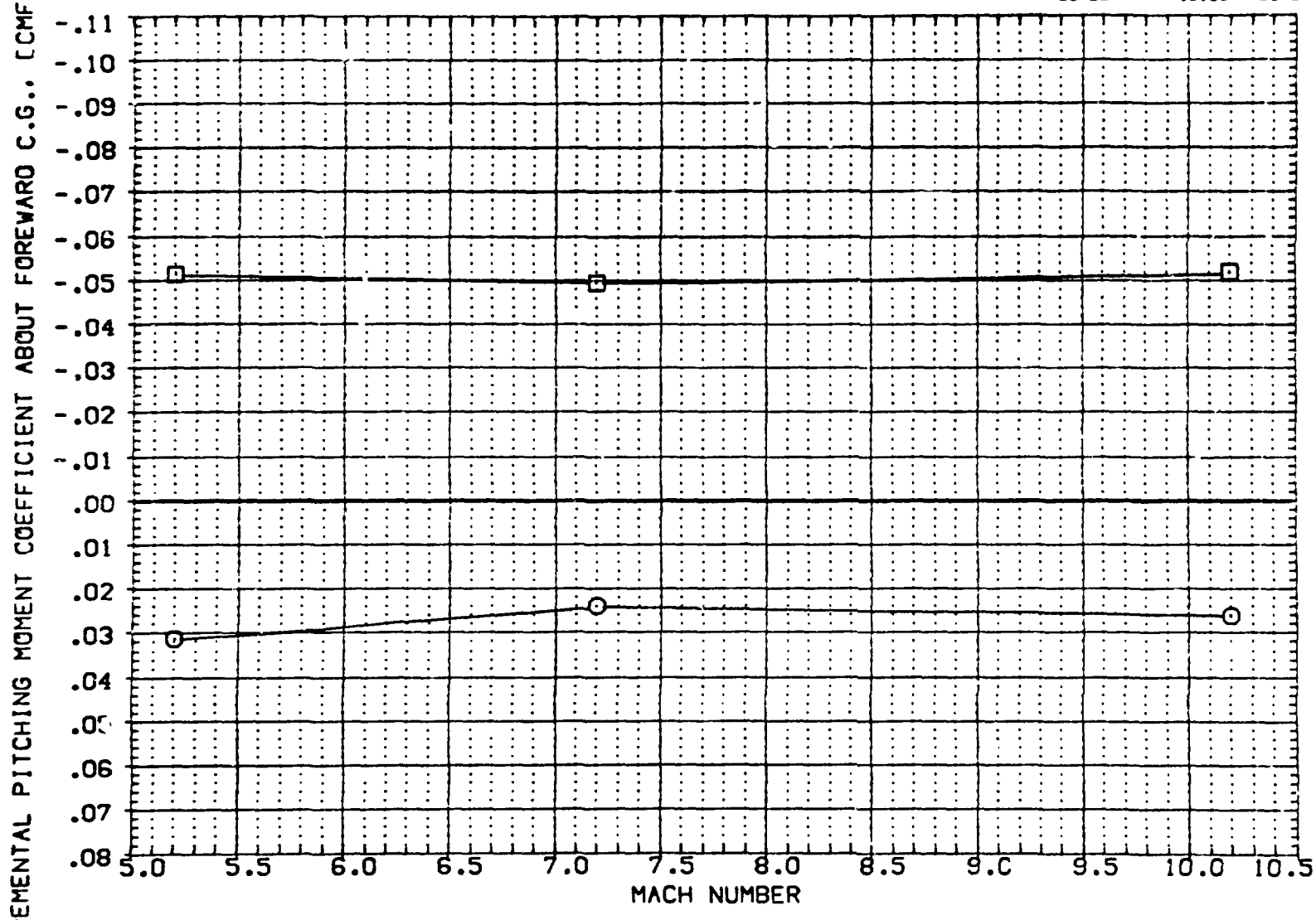


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

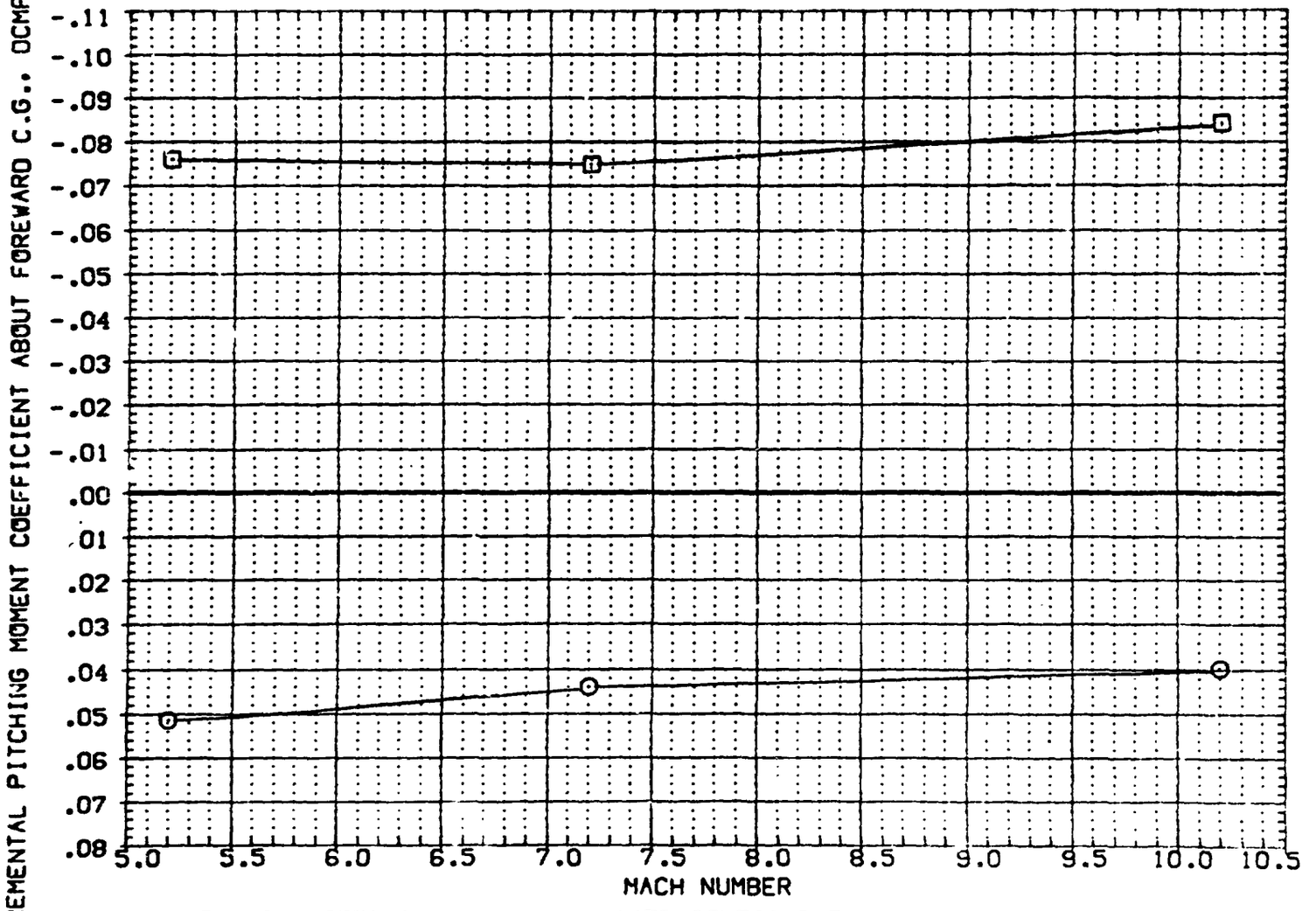


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

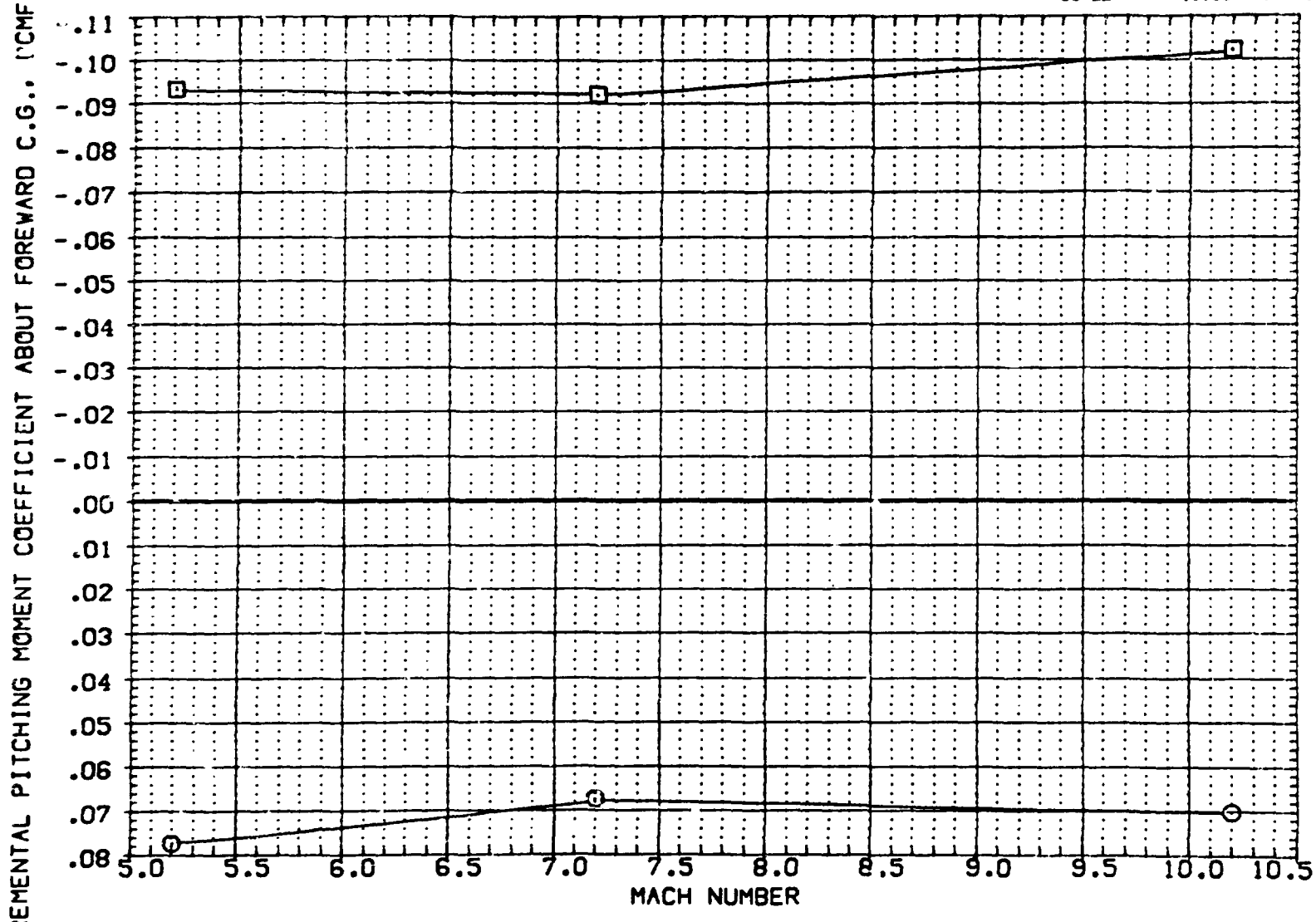


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

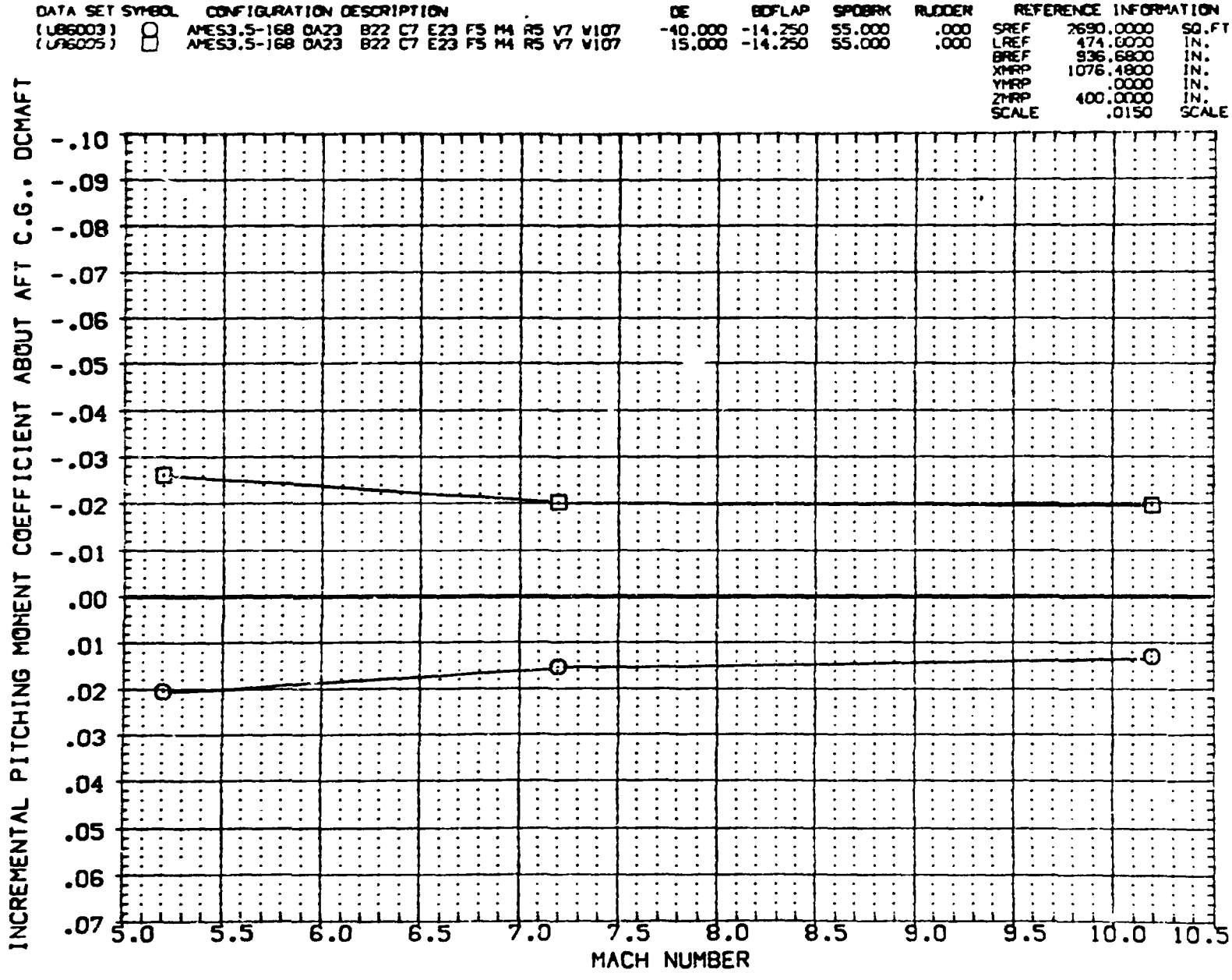


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(U86003)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(U86005)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.1800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

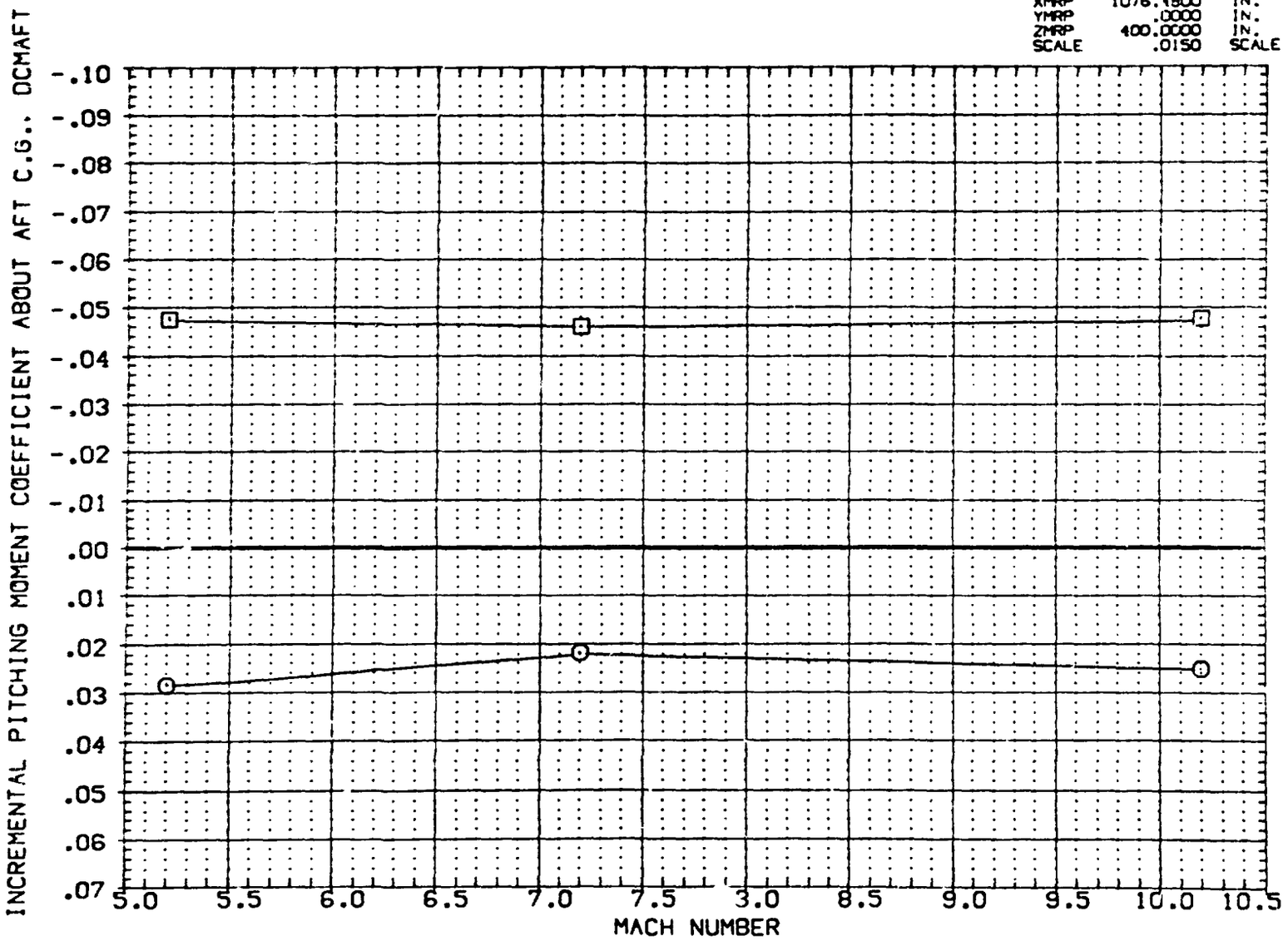


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(U86005)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

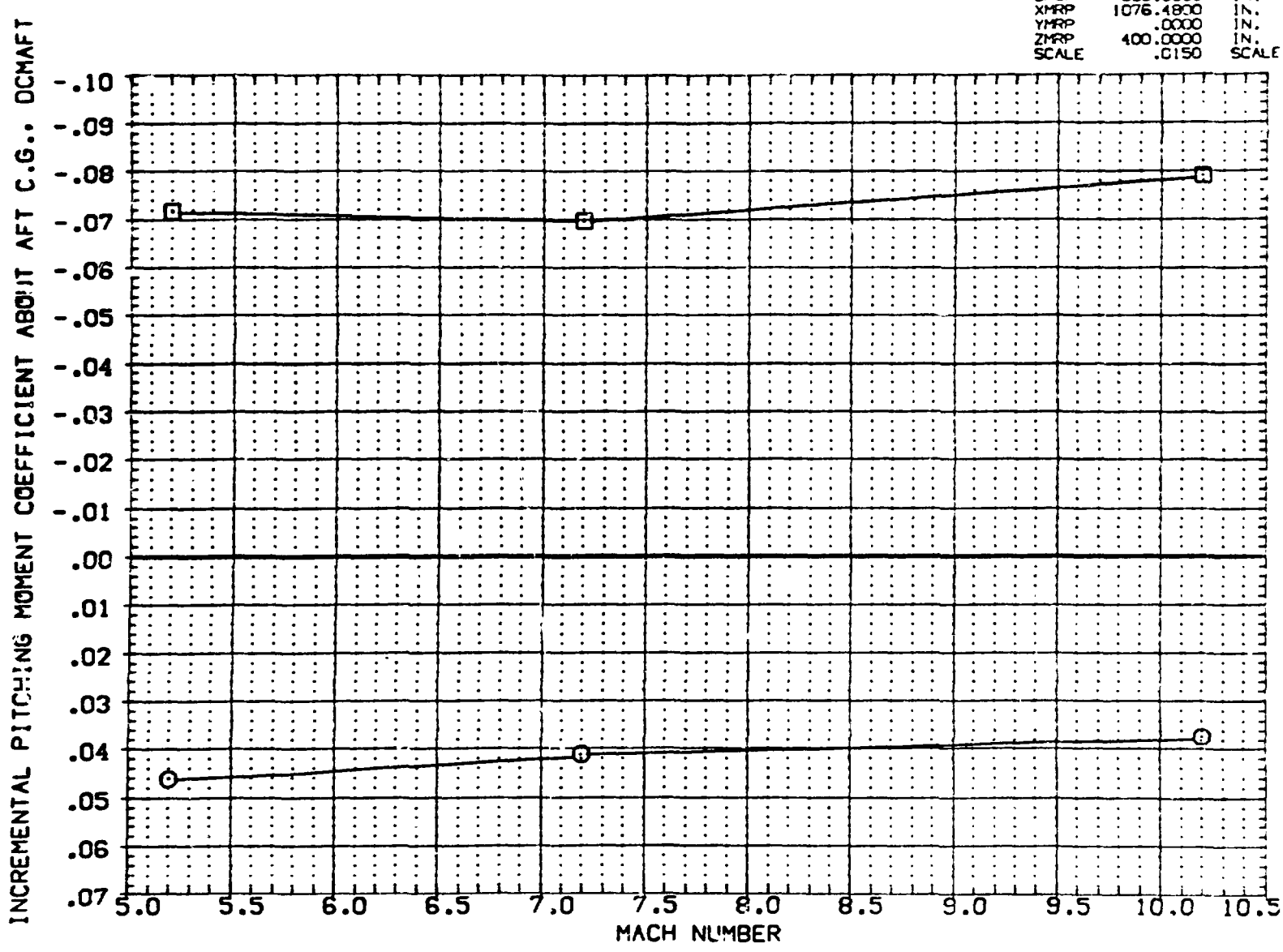


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

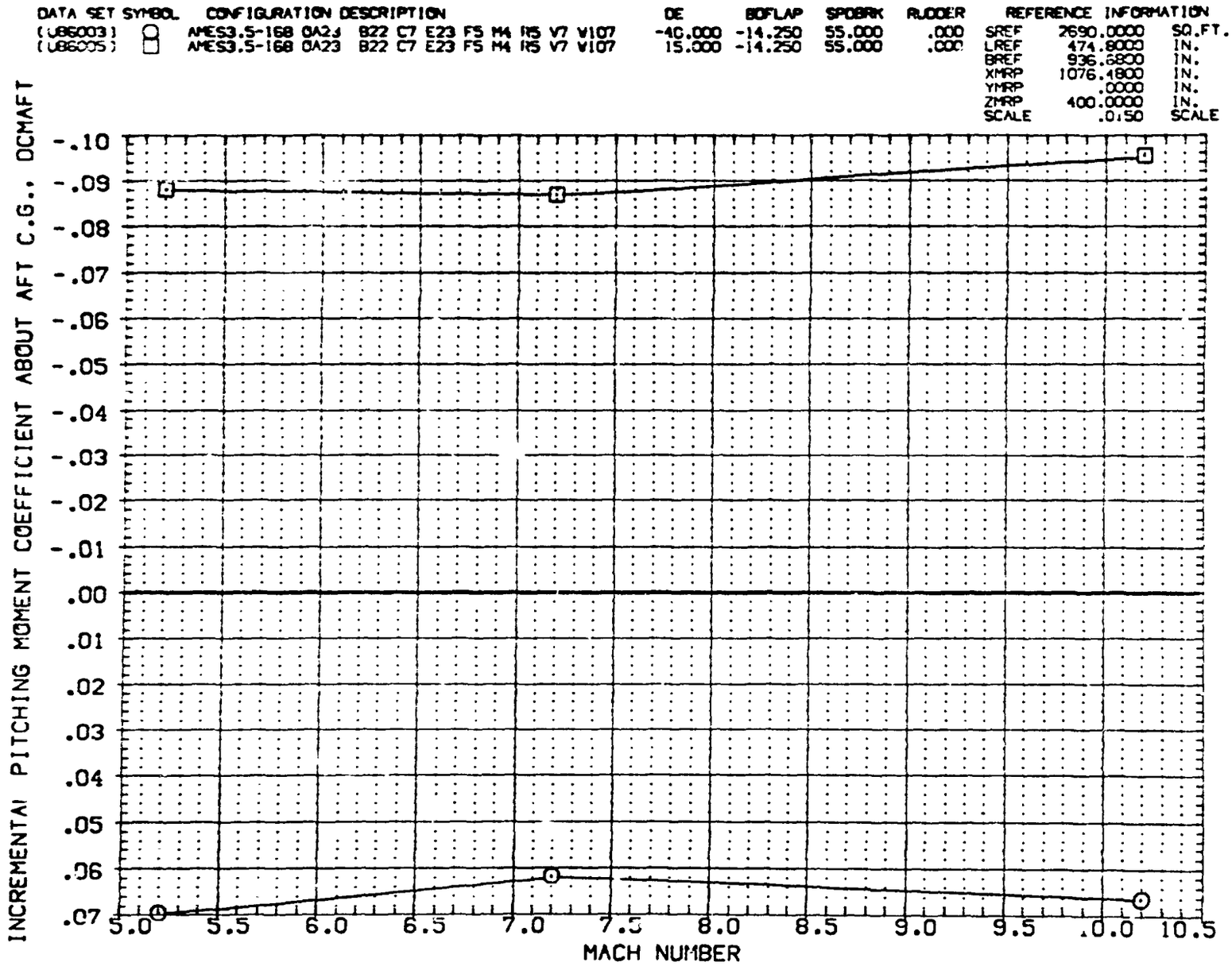


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

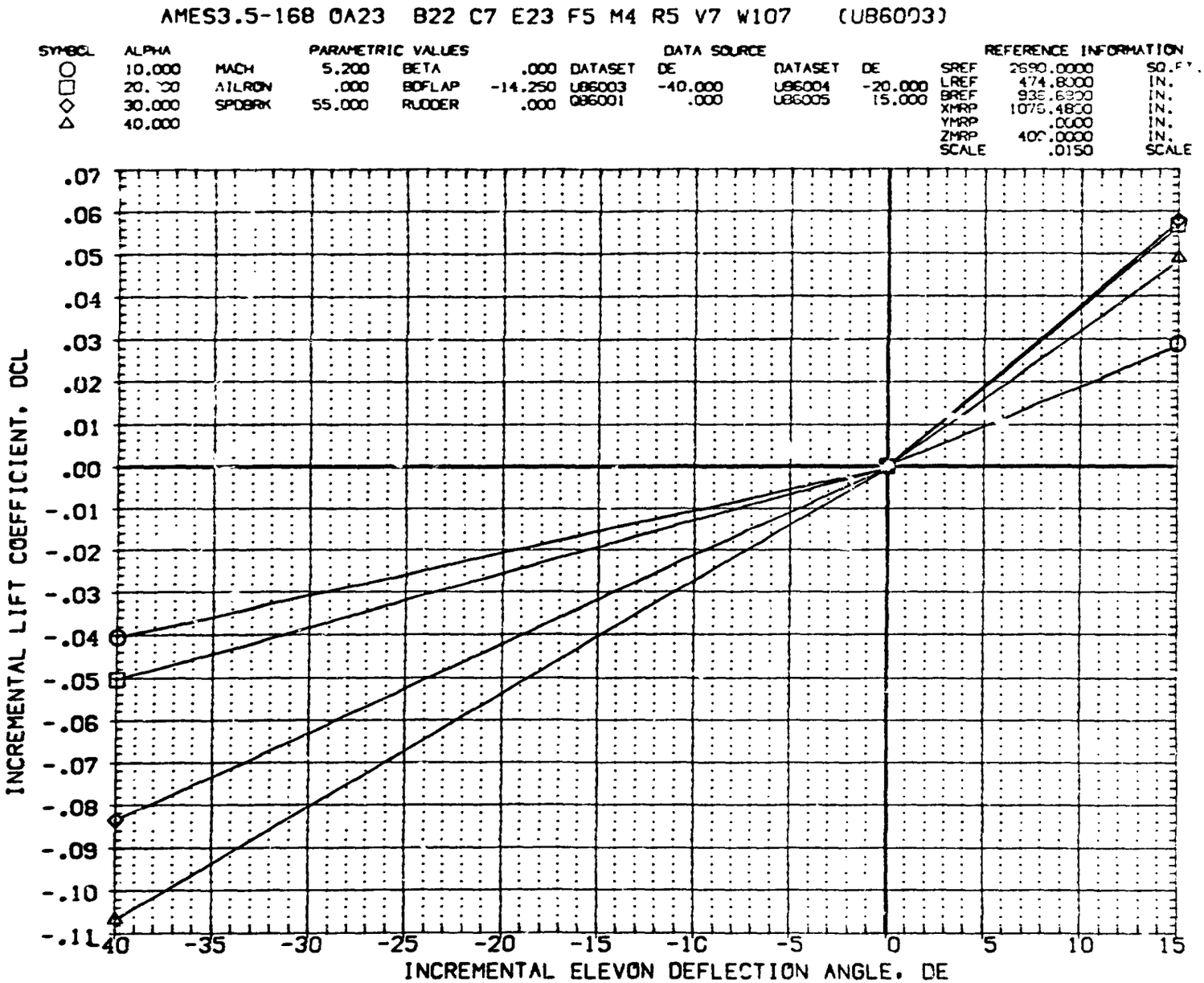


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

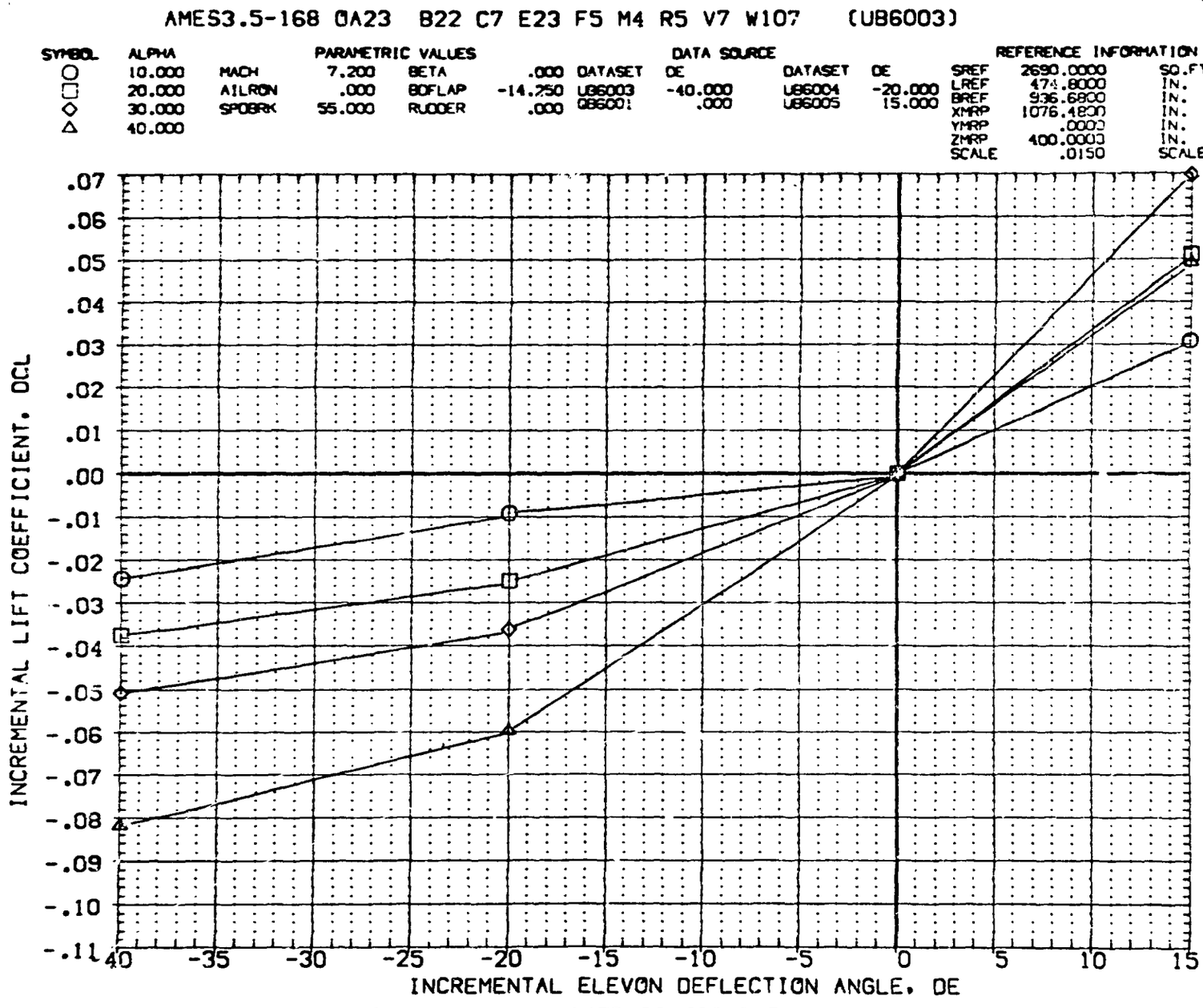


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

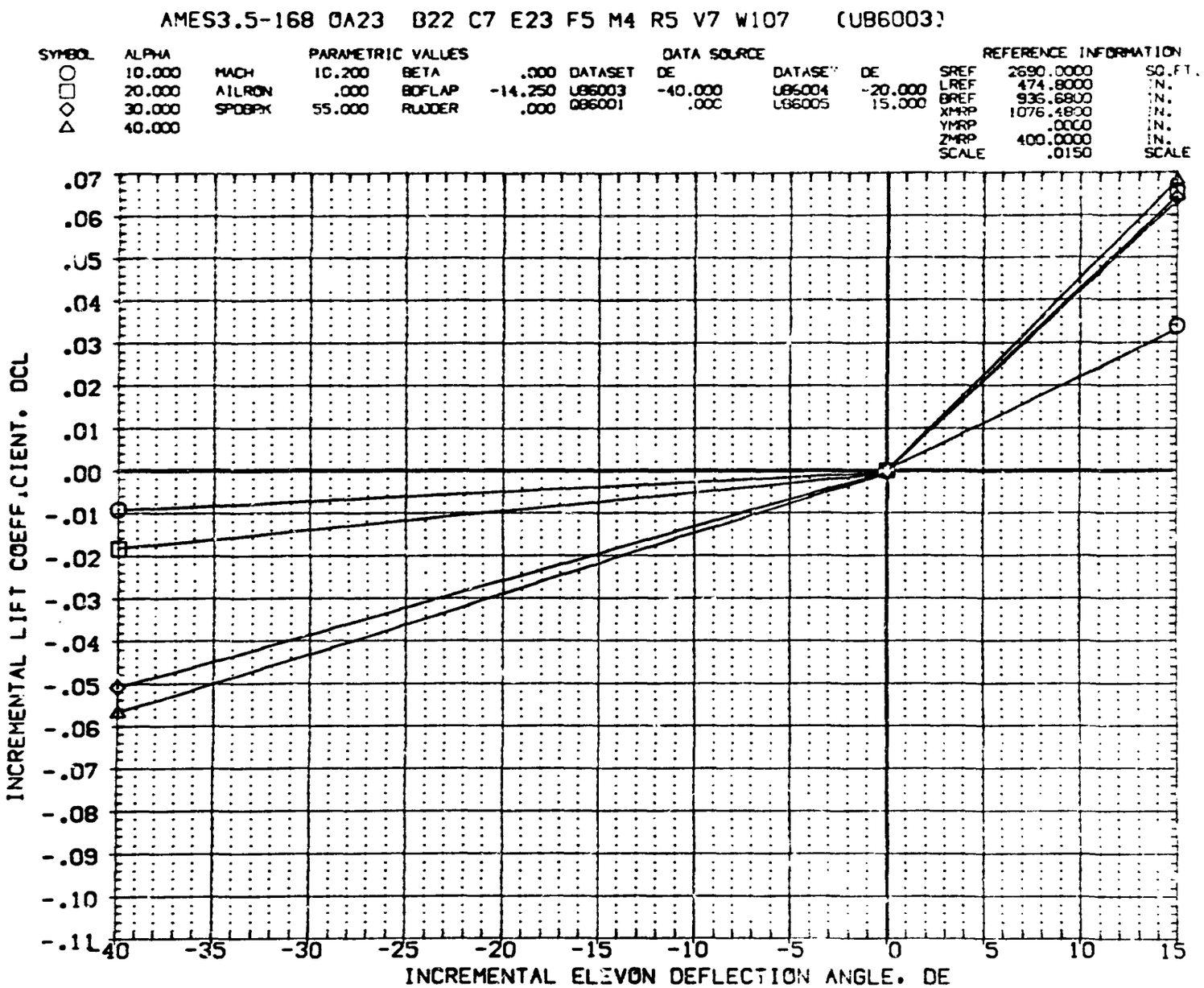


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

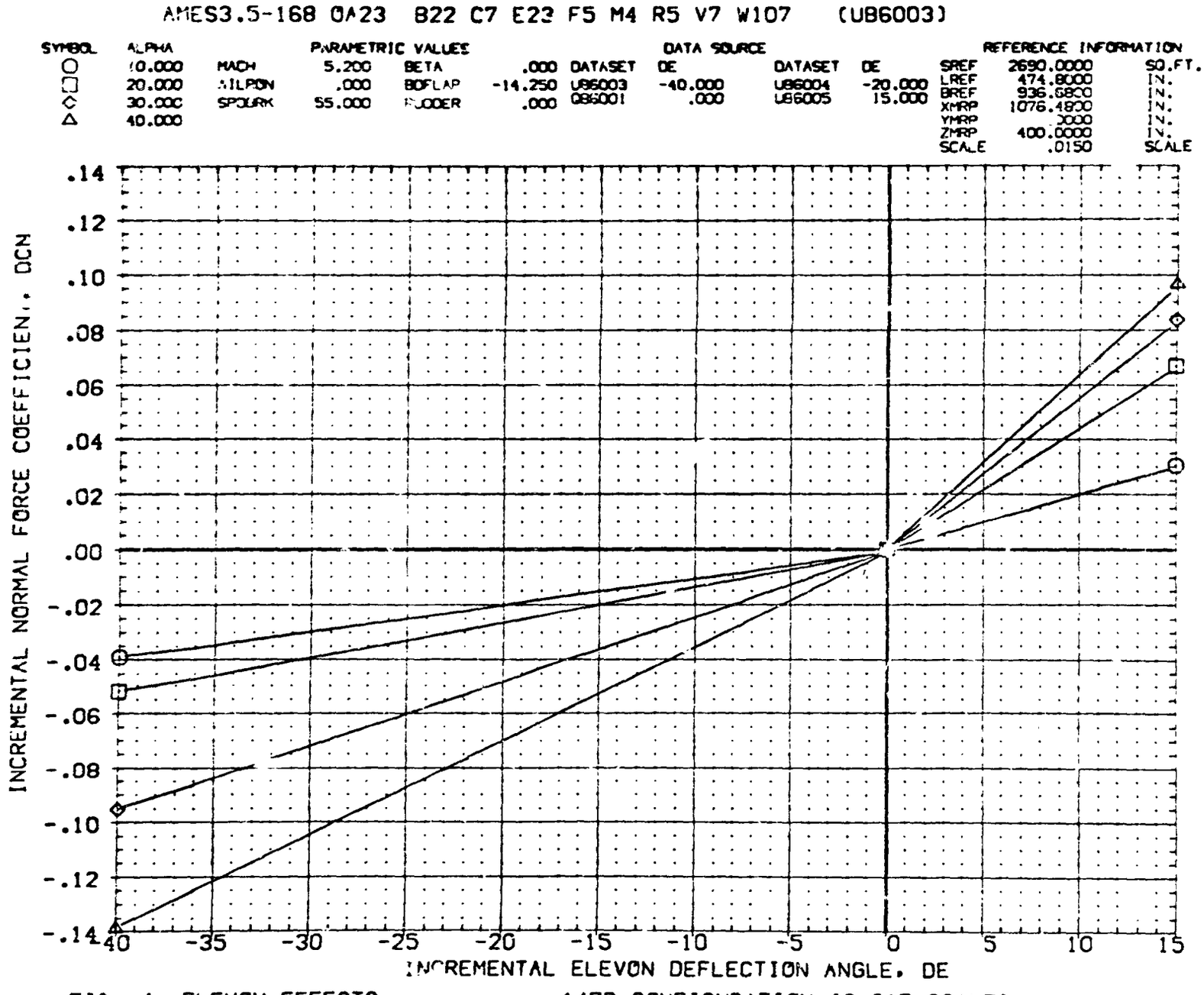


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	7.200	BETA	.000	DATASET	DE	DATASET	DE	SREF	2690.0000	SQ.FT.
□	20.000	AILRON	.000	BOFLAP	-14.250	UB6003	-40.000	UB6004	-20.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6001	.000	UB6005	15.000	BREF	936.6000	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

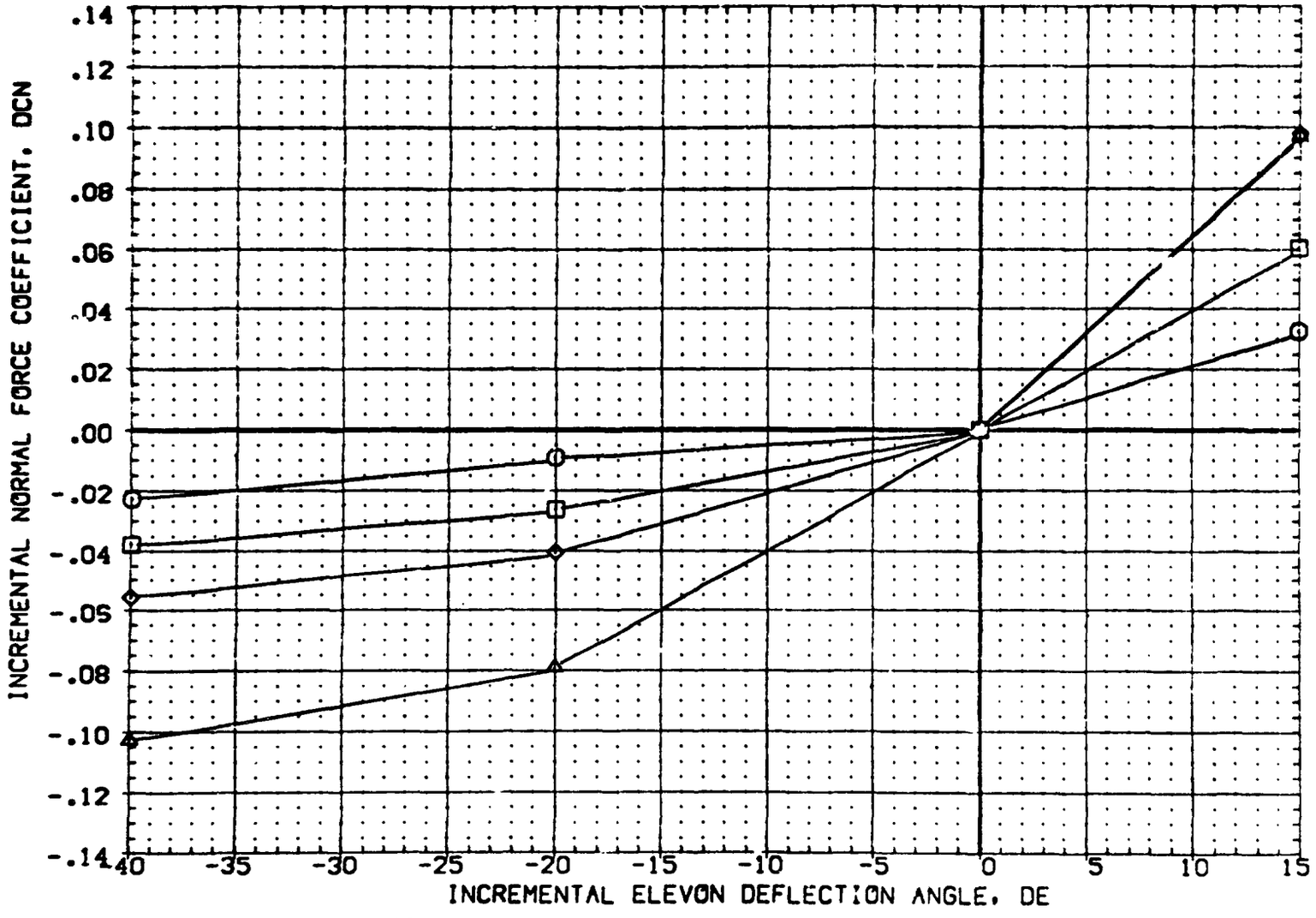


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

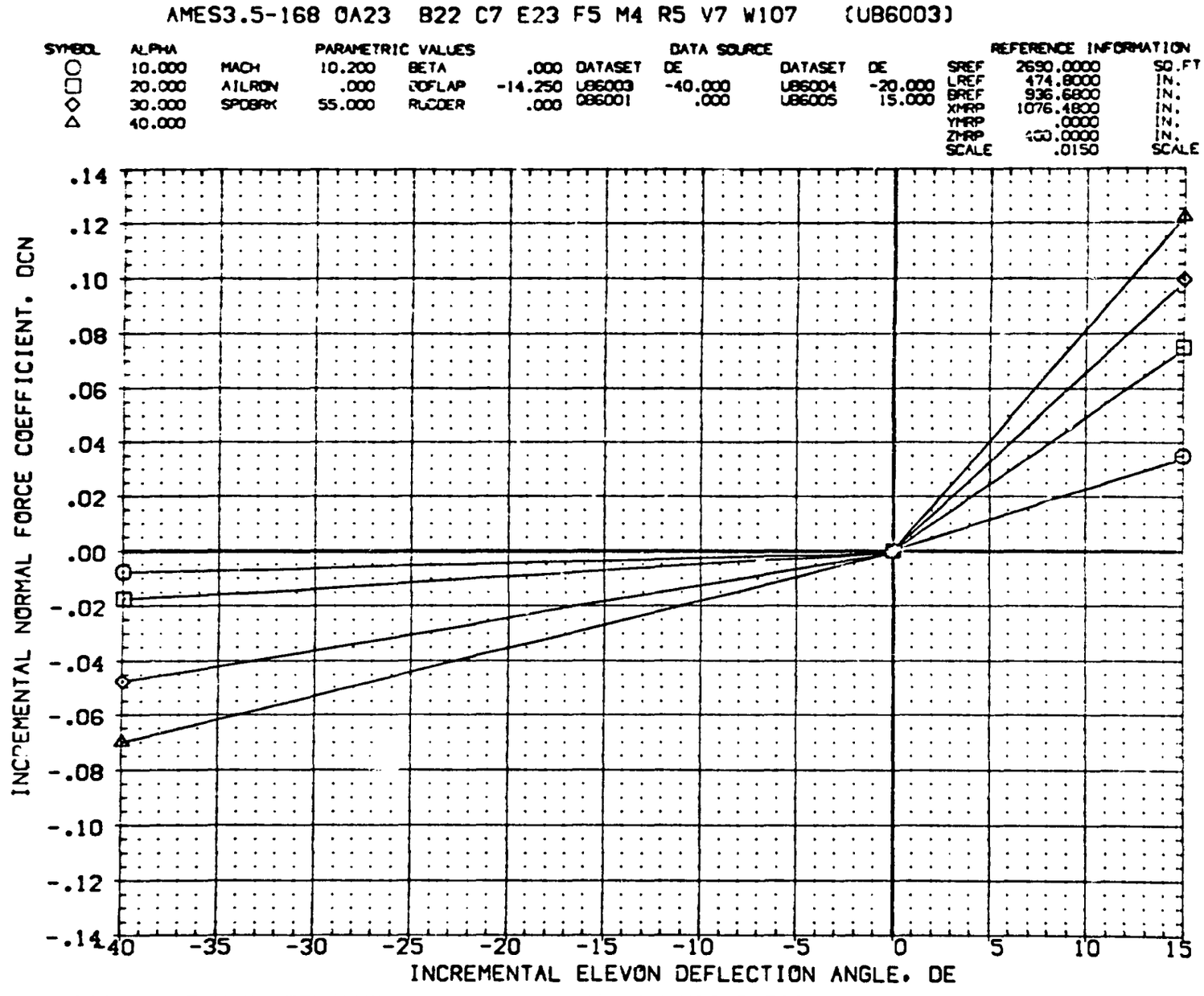


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

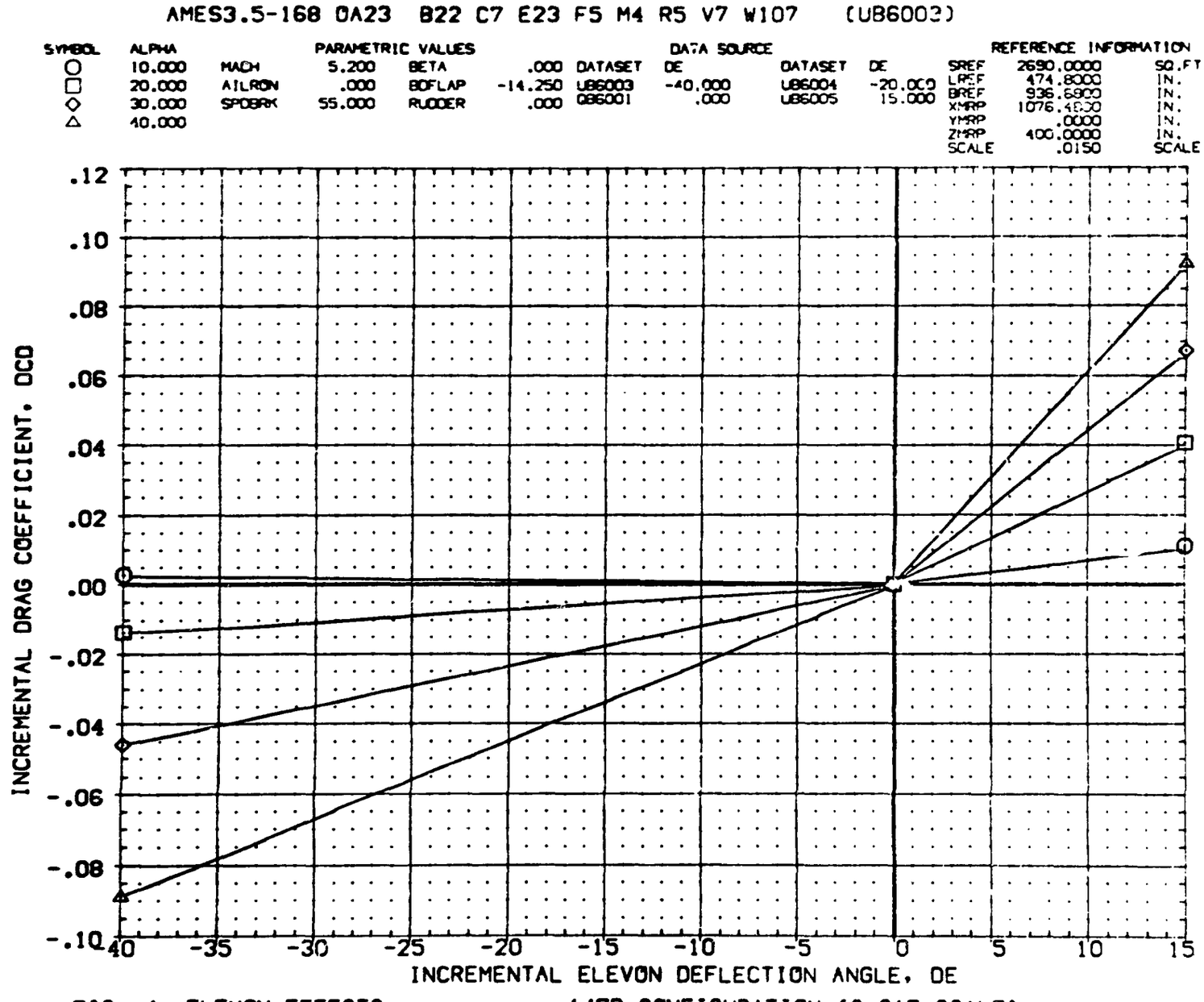


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	7.200	BETA	.000	DATASET	DE	DATASET	DE	SREF	2690.0000	SQ.FT.
□	20.000	AILRON	.000	BDFLAP	-14.250	UB6003	-40.000	UB6004	-20.000	LREF	474.8000	IN.
◇	30.000	SPDBRK	55.000	RUDDER	.000	UB6001	.000	UB6005	15.000	BREF	935.6800	IN.
△	40.000									XMRP	1076.4600	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

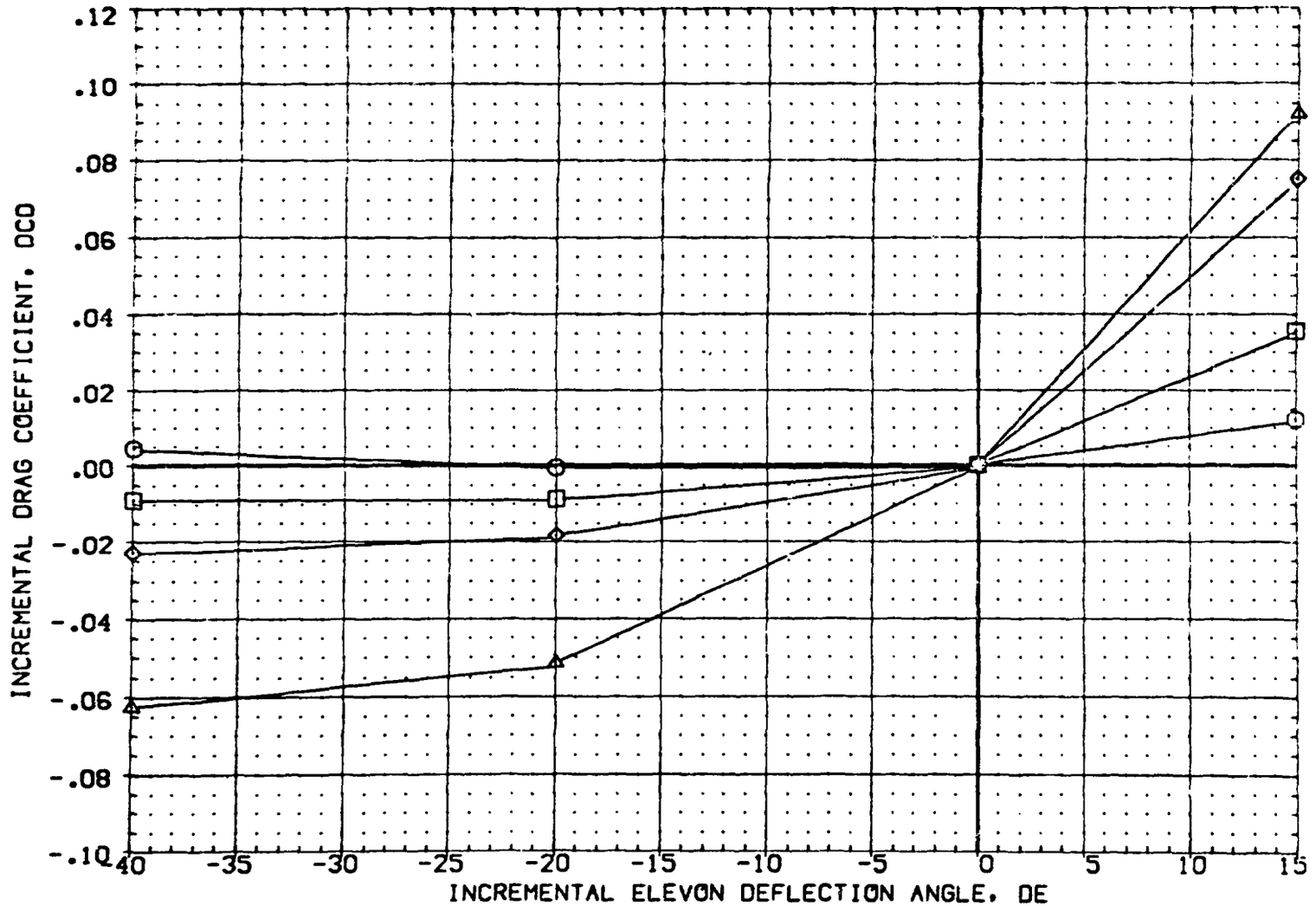


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

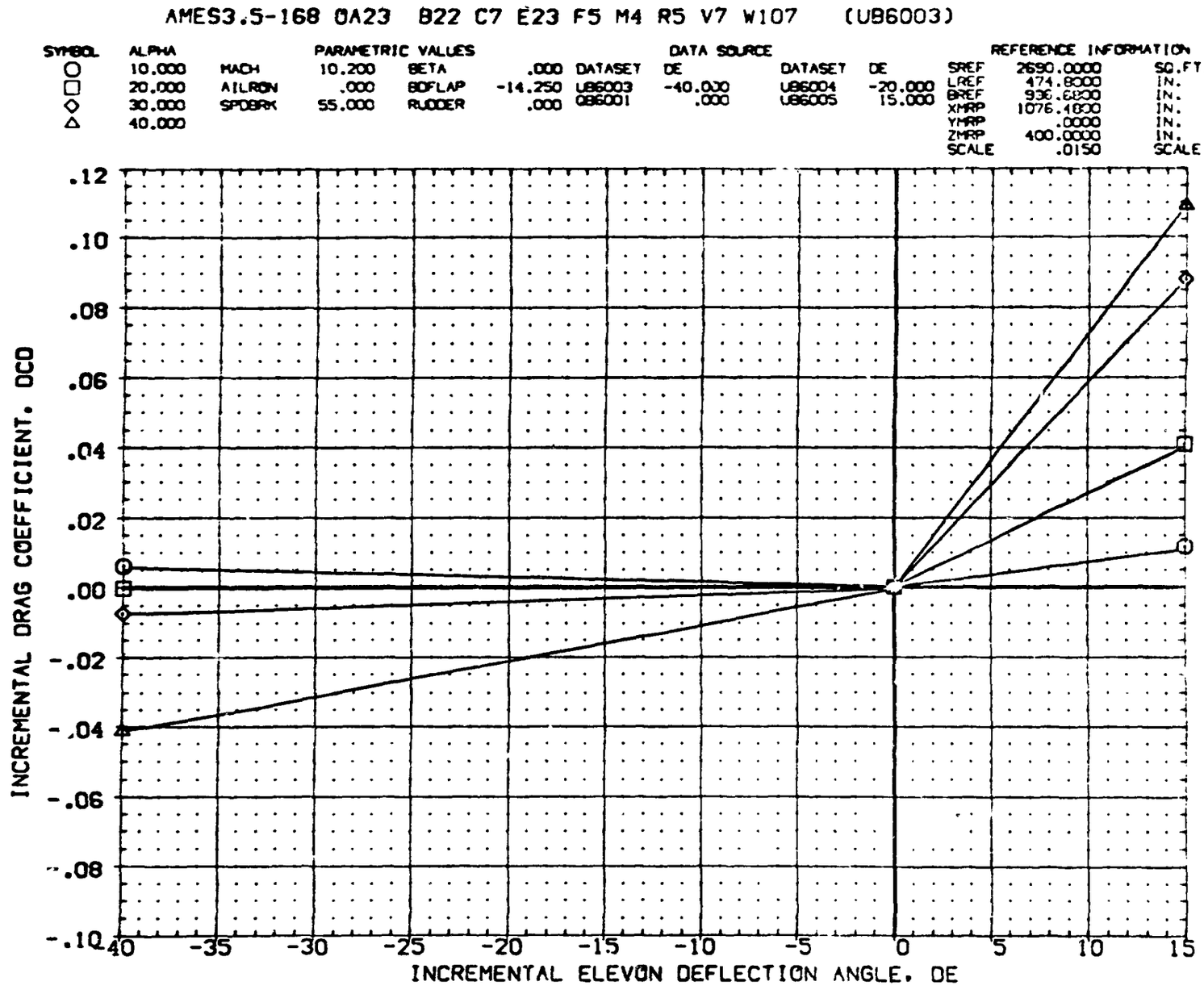


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

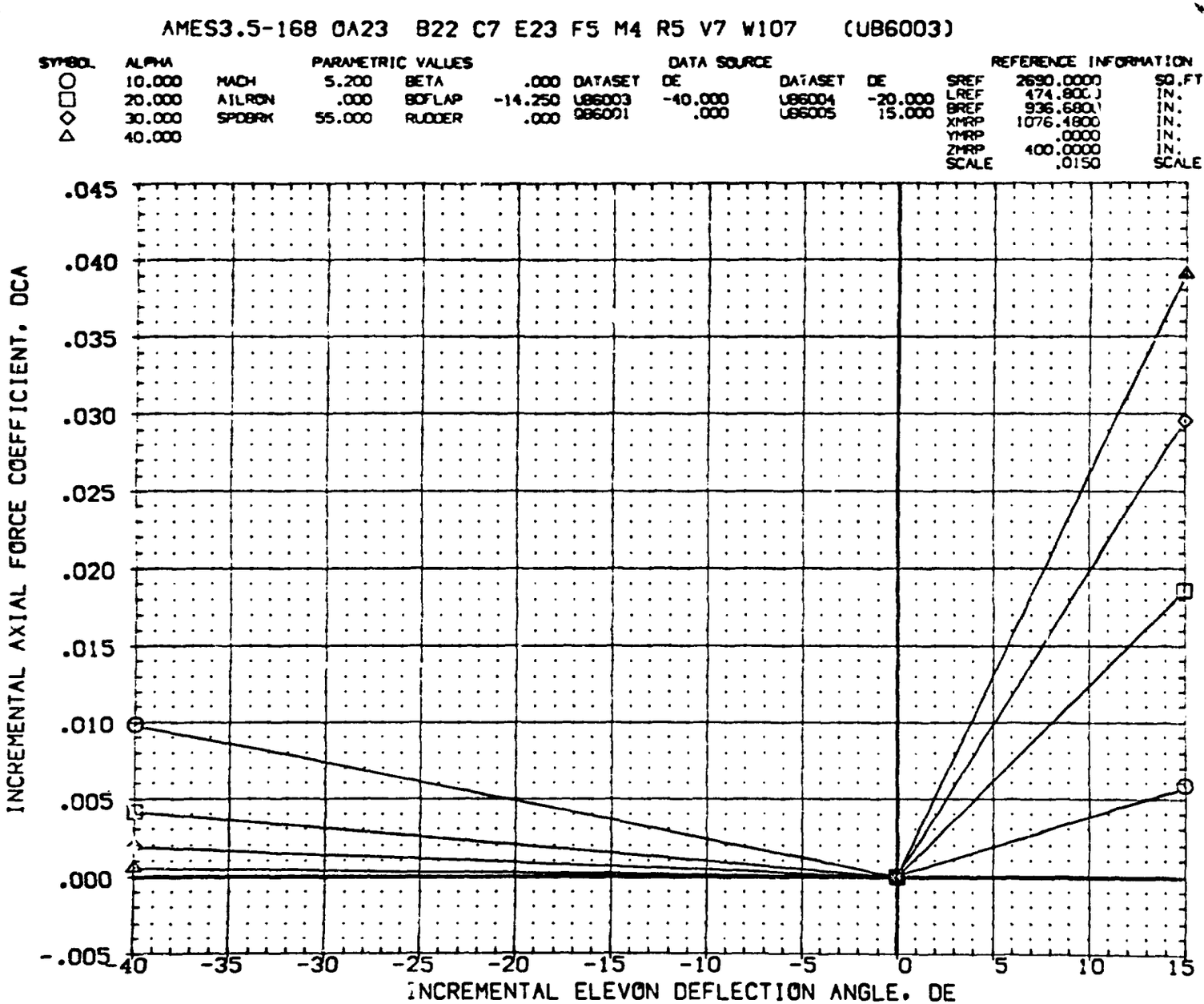


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

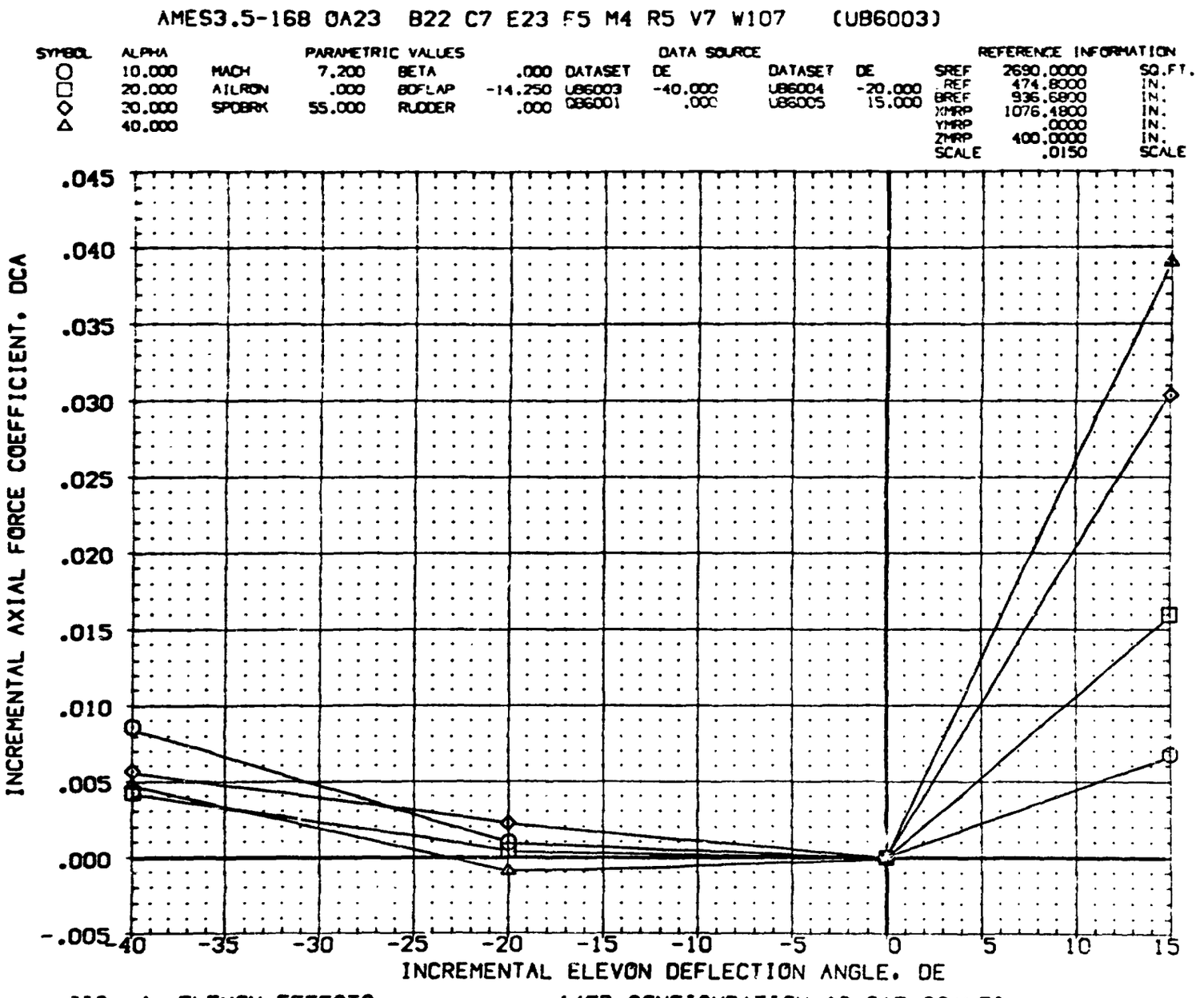


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

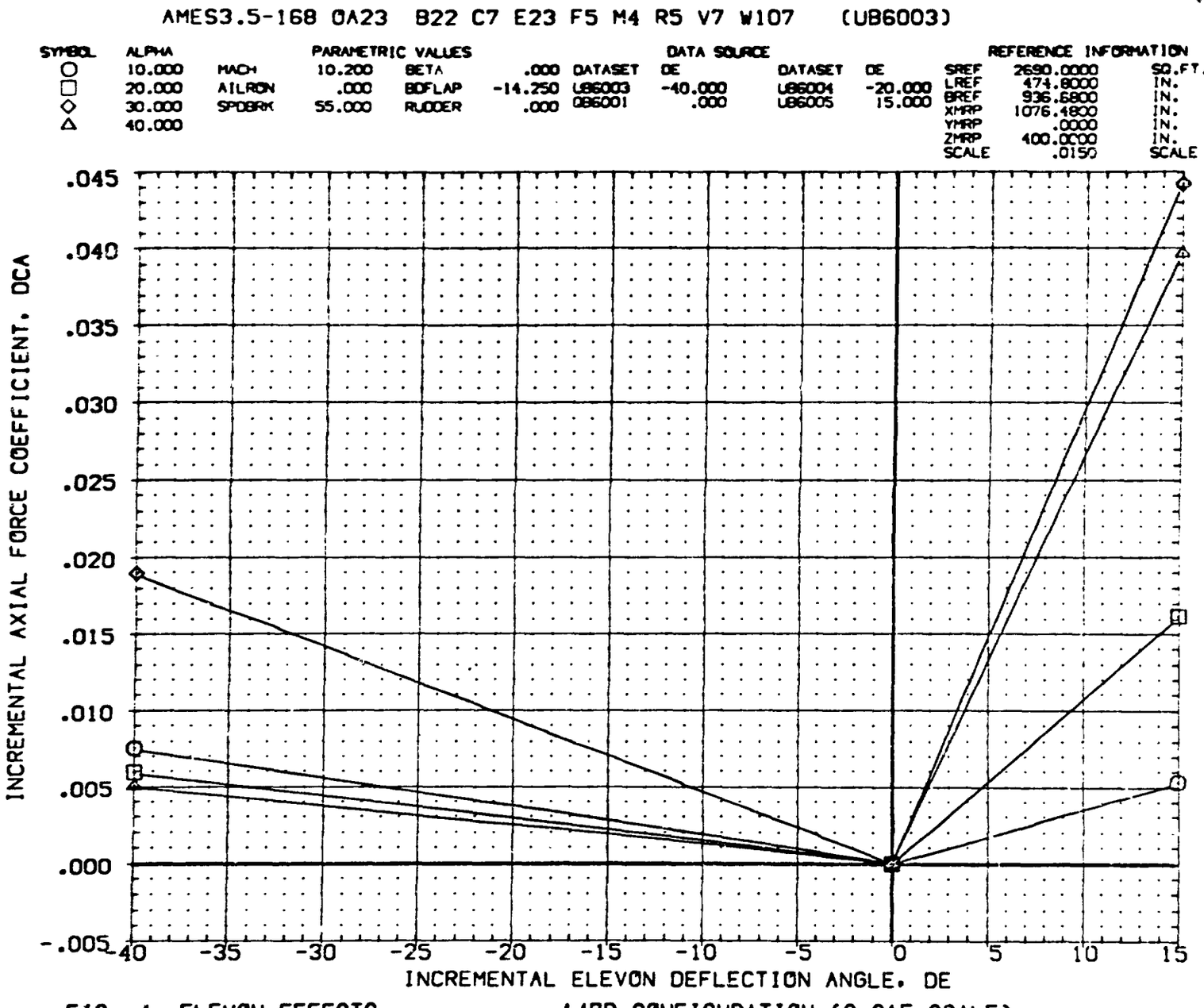


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

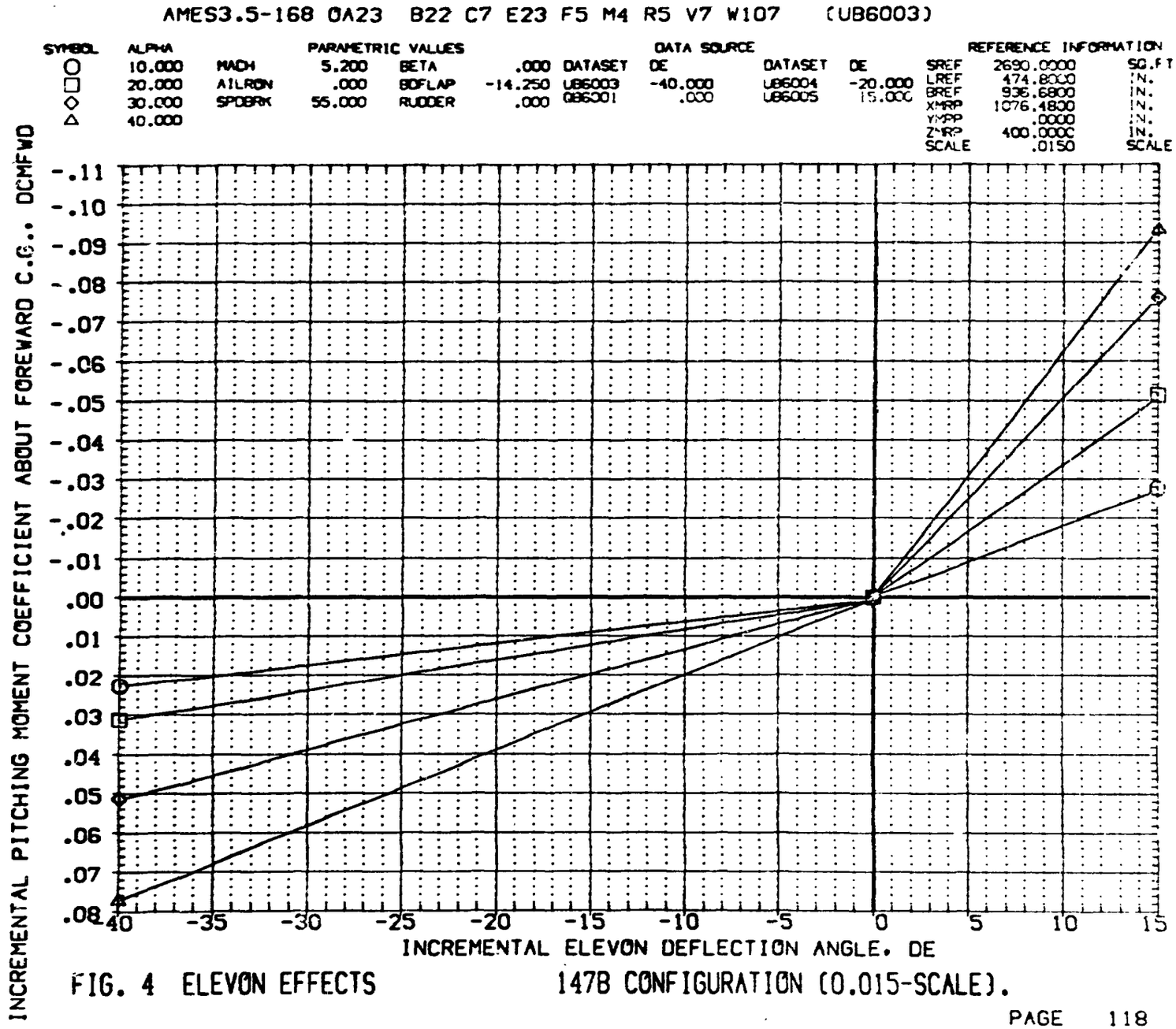


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

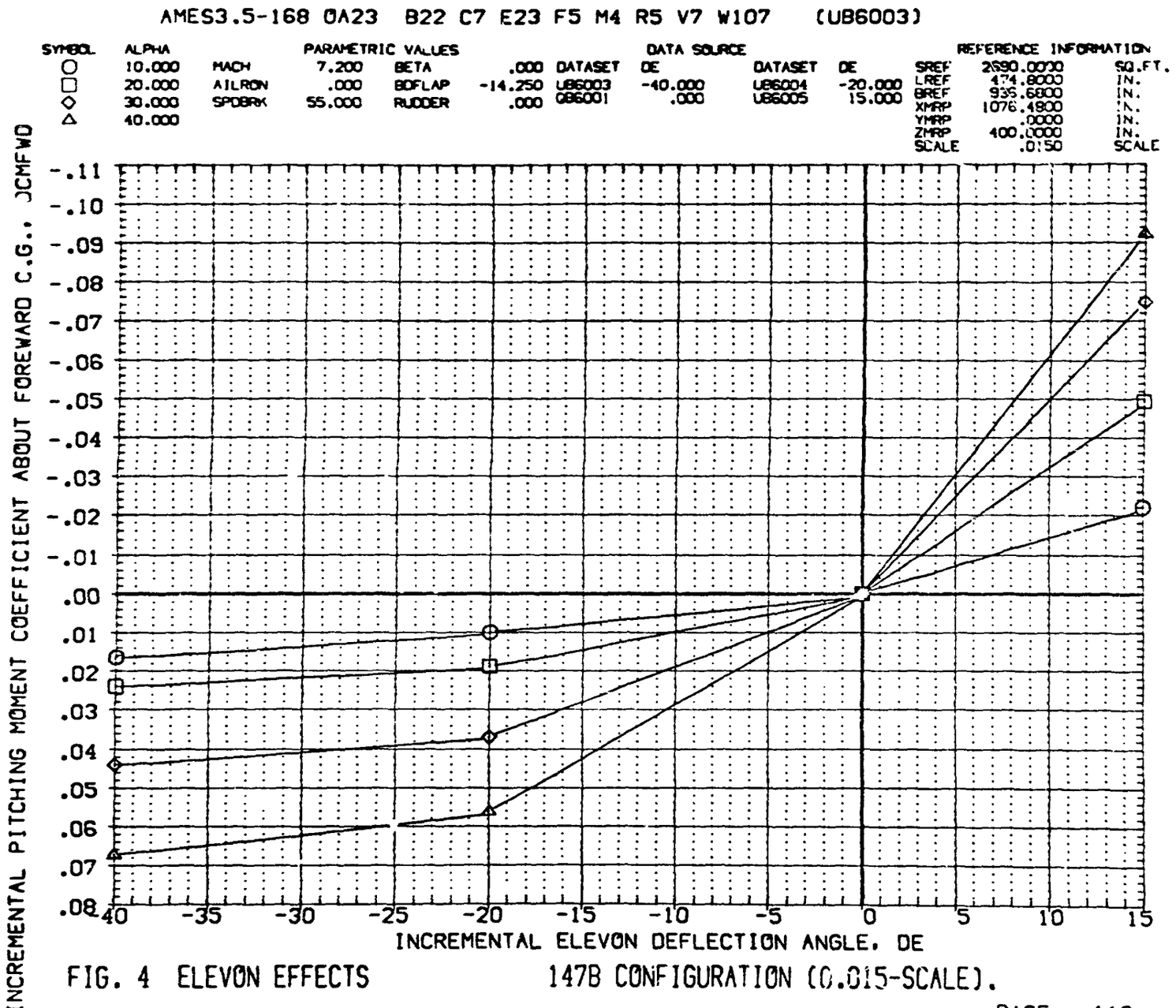


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

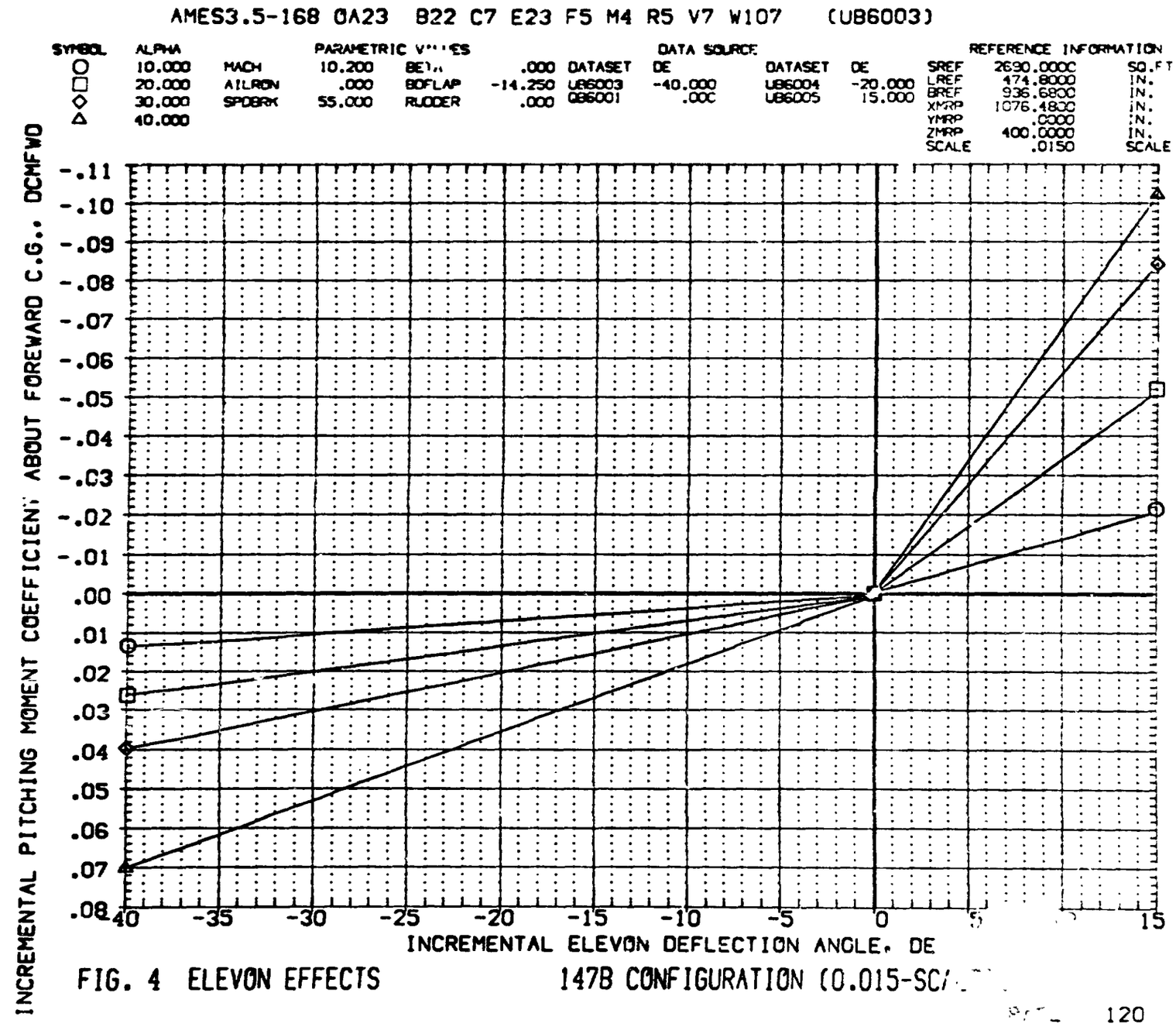


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SC/

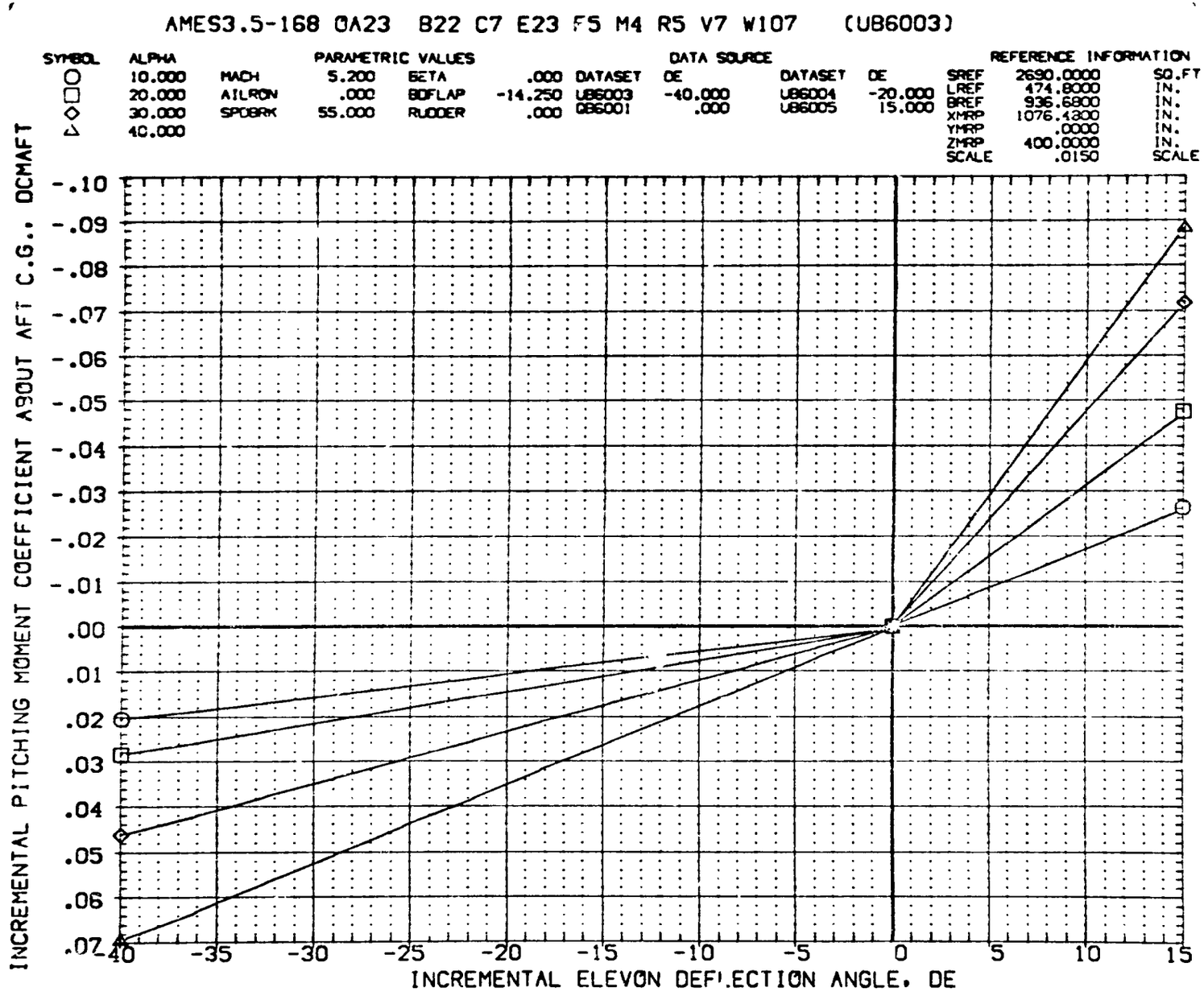


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

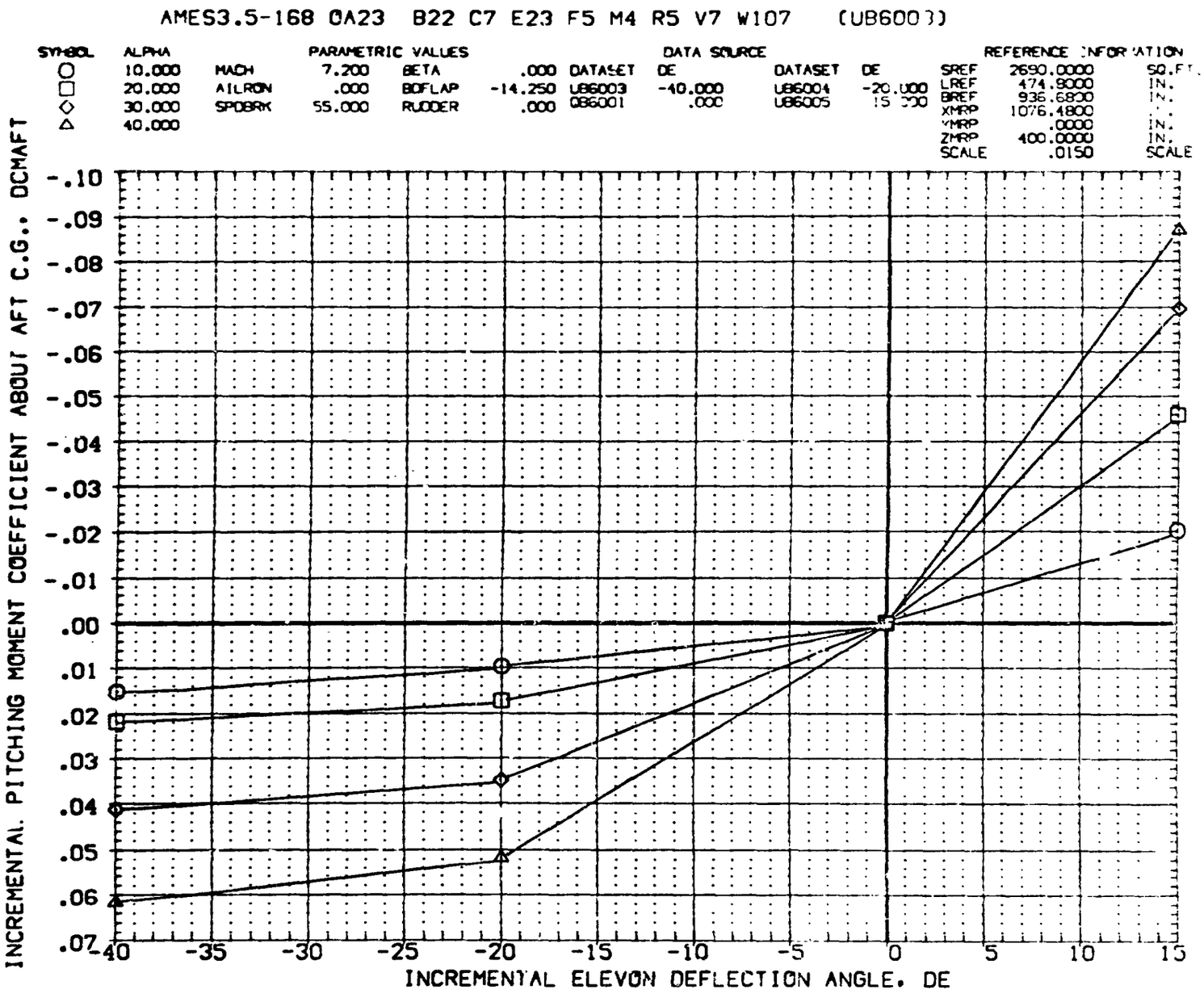


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

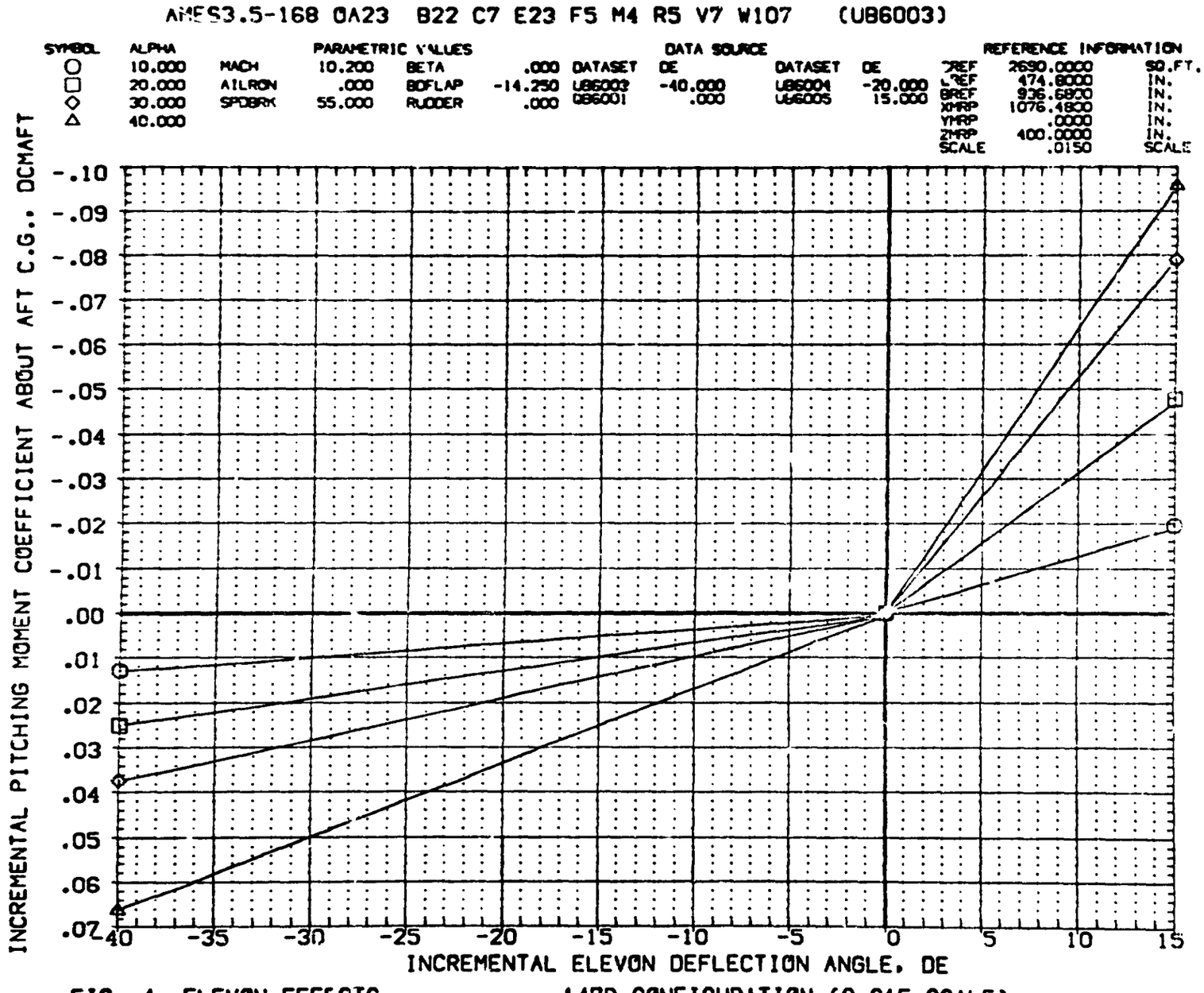


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-1. .250	55.000	.000
(CB6007)	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	▷	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.8800	IN.
XMRP	1076.1900	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

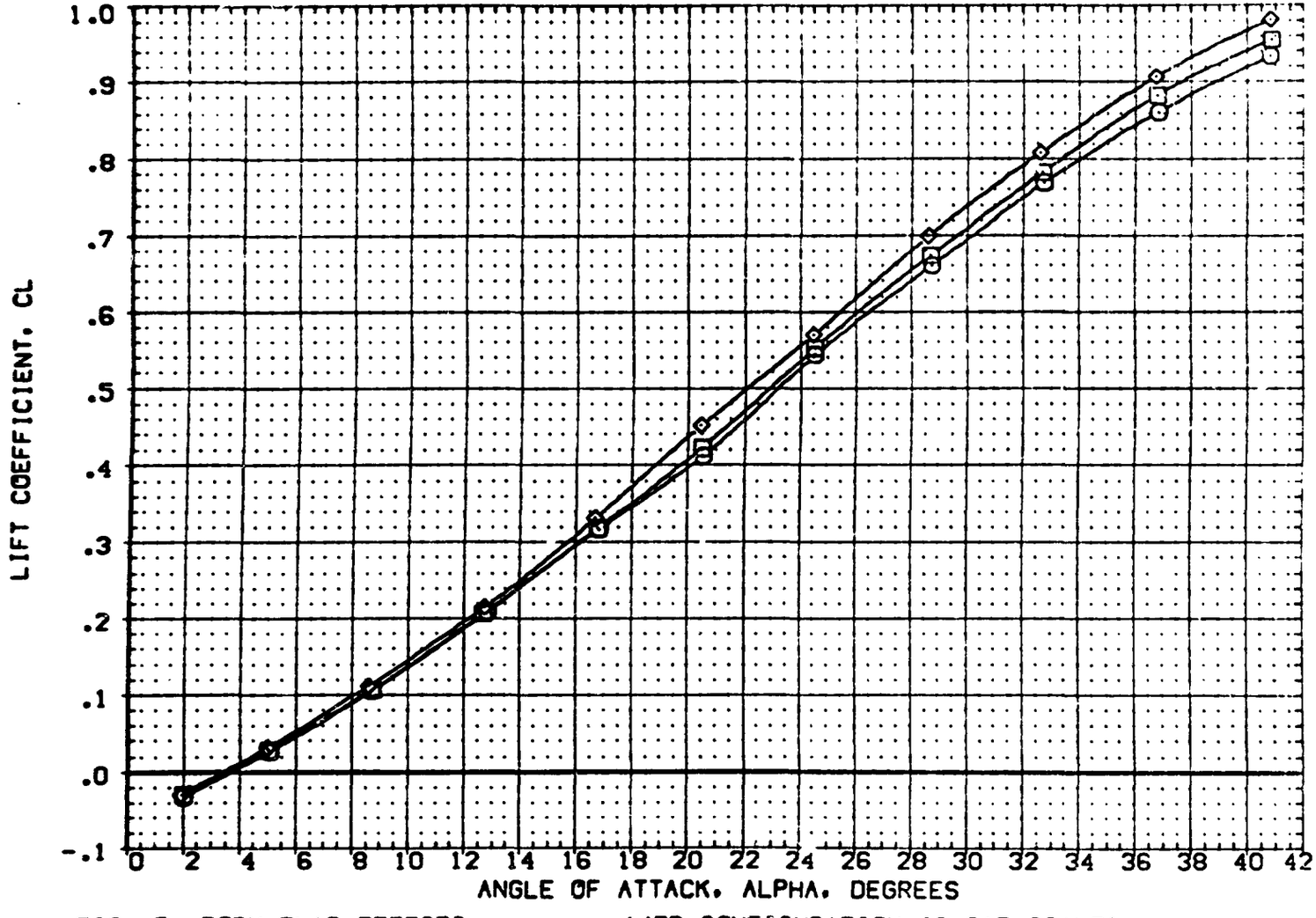


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)		AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)		AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)		AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(CB6003)		AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6006)		AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

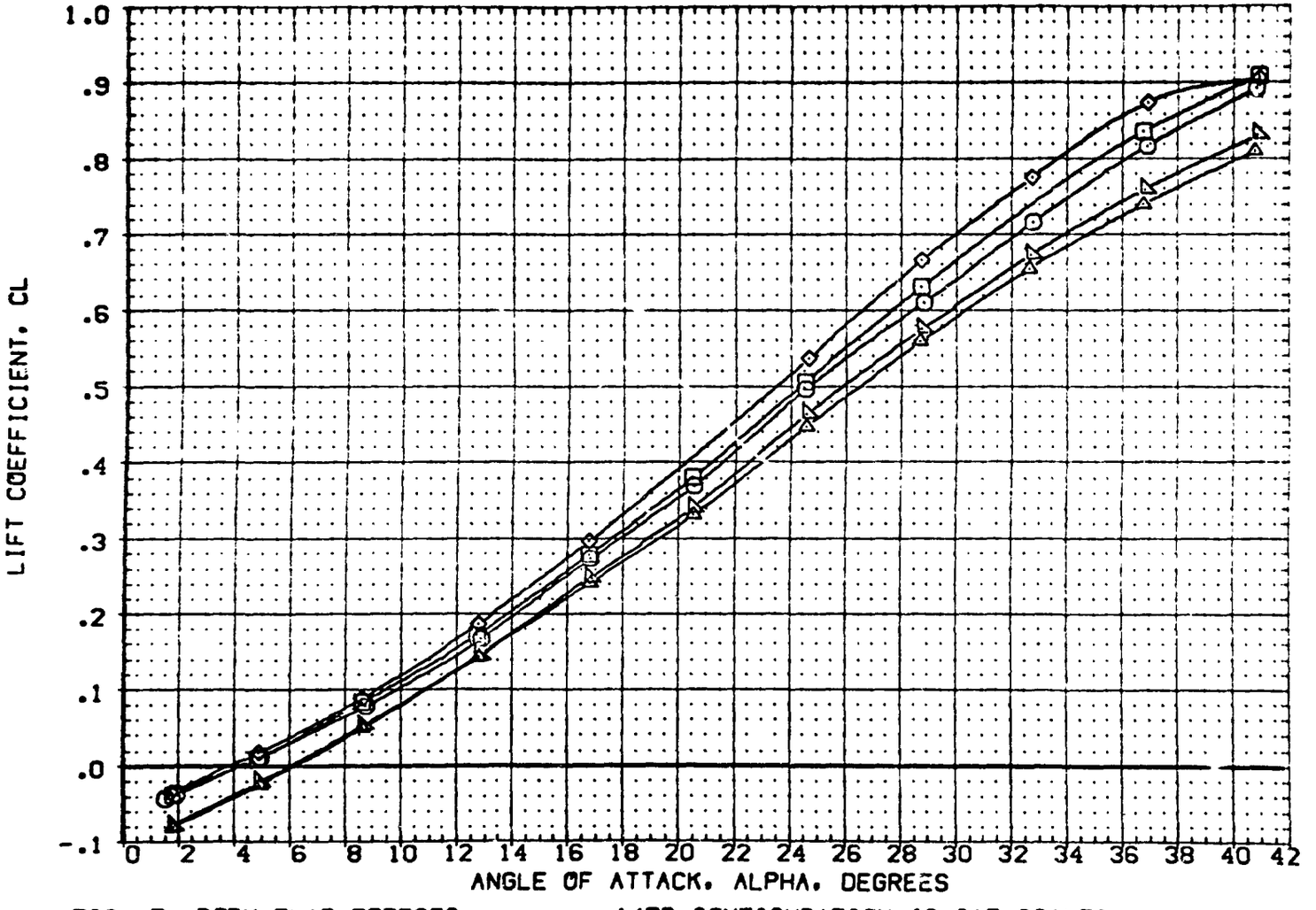


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 BA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 BA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 BA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	▷	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

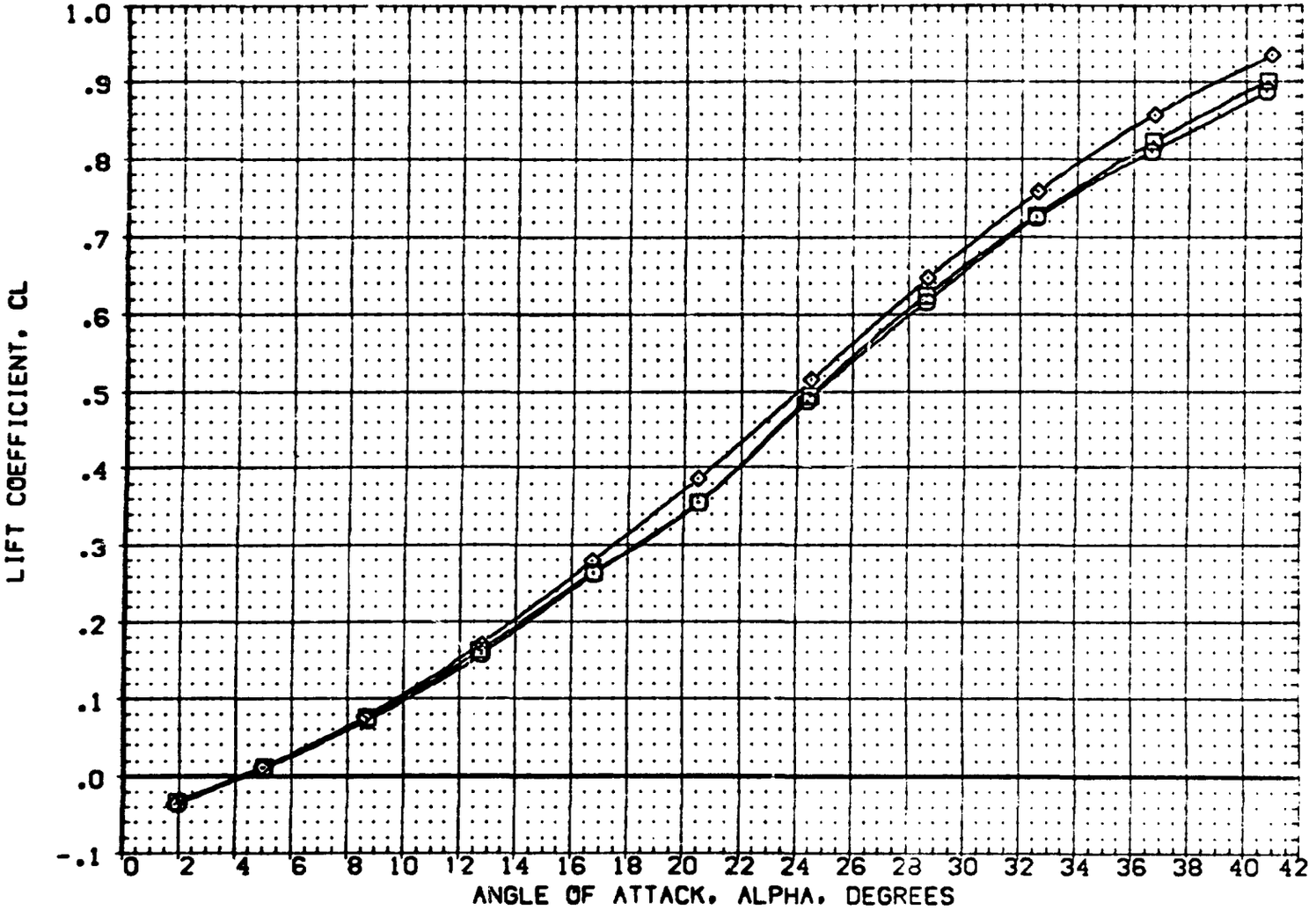


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	◁	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

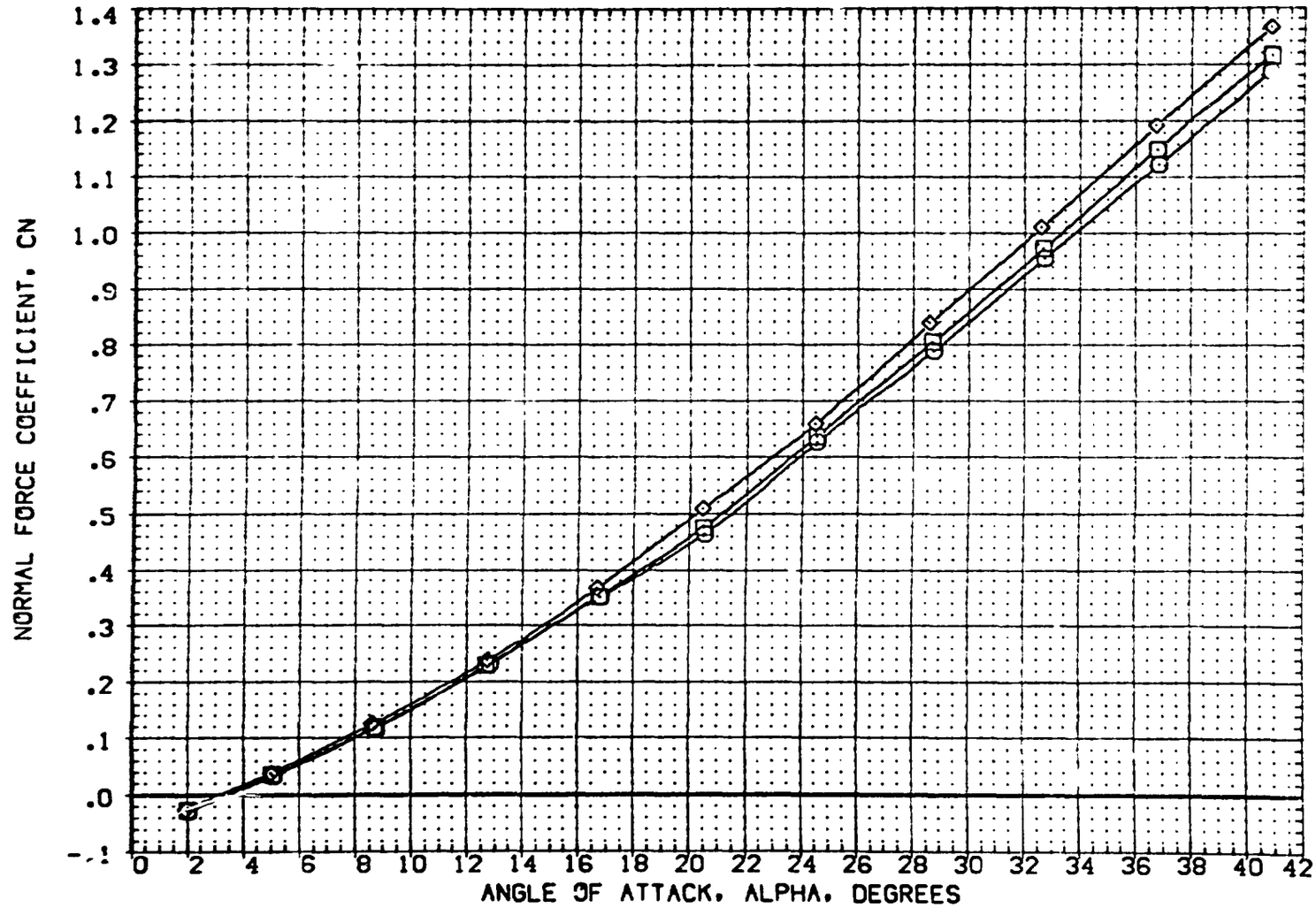


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6006)	▽	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.6800	IN.
XMRP	1076.4300	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

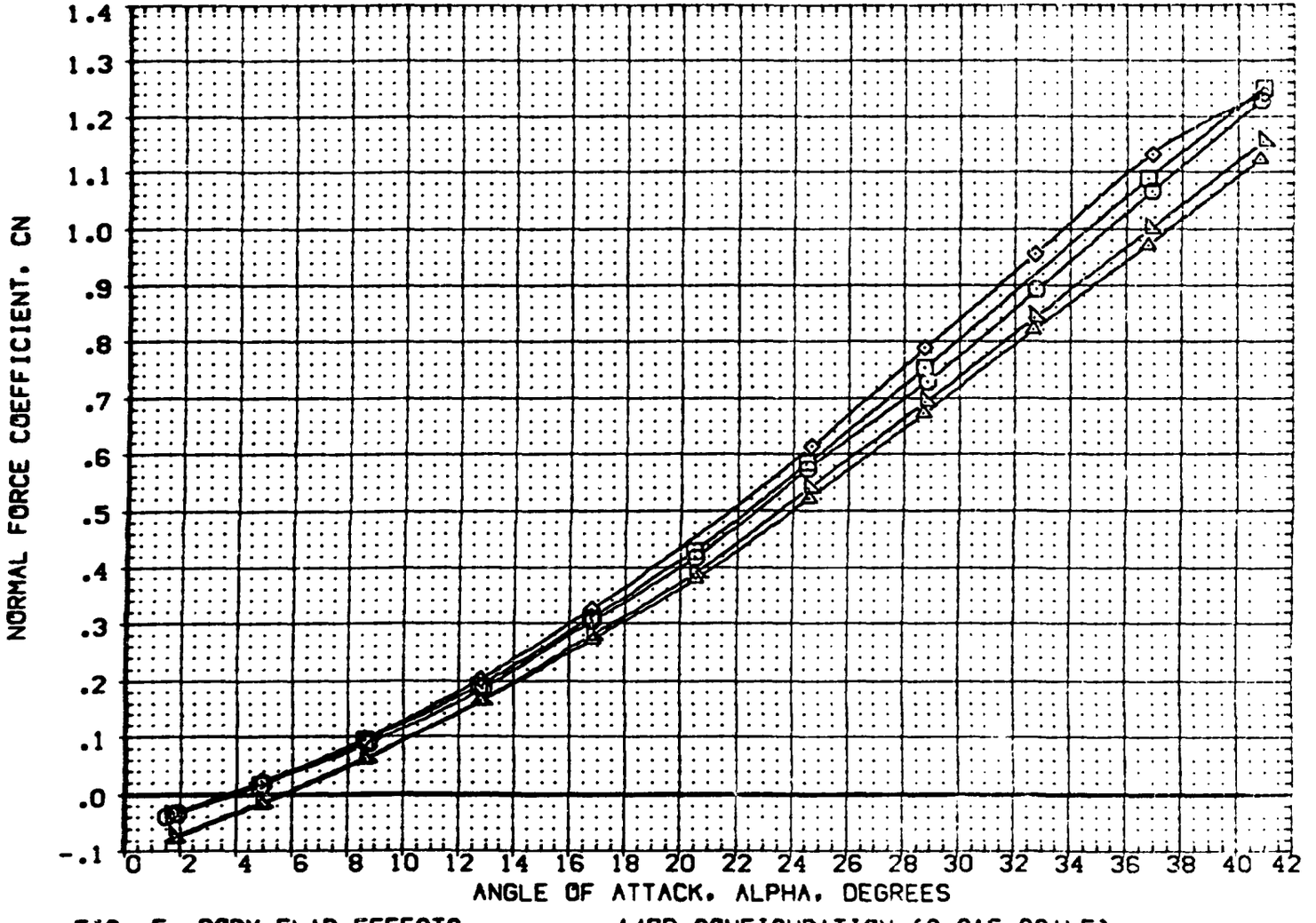


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	▷	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

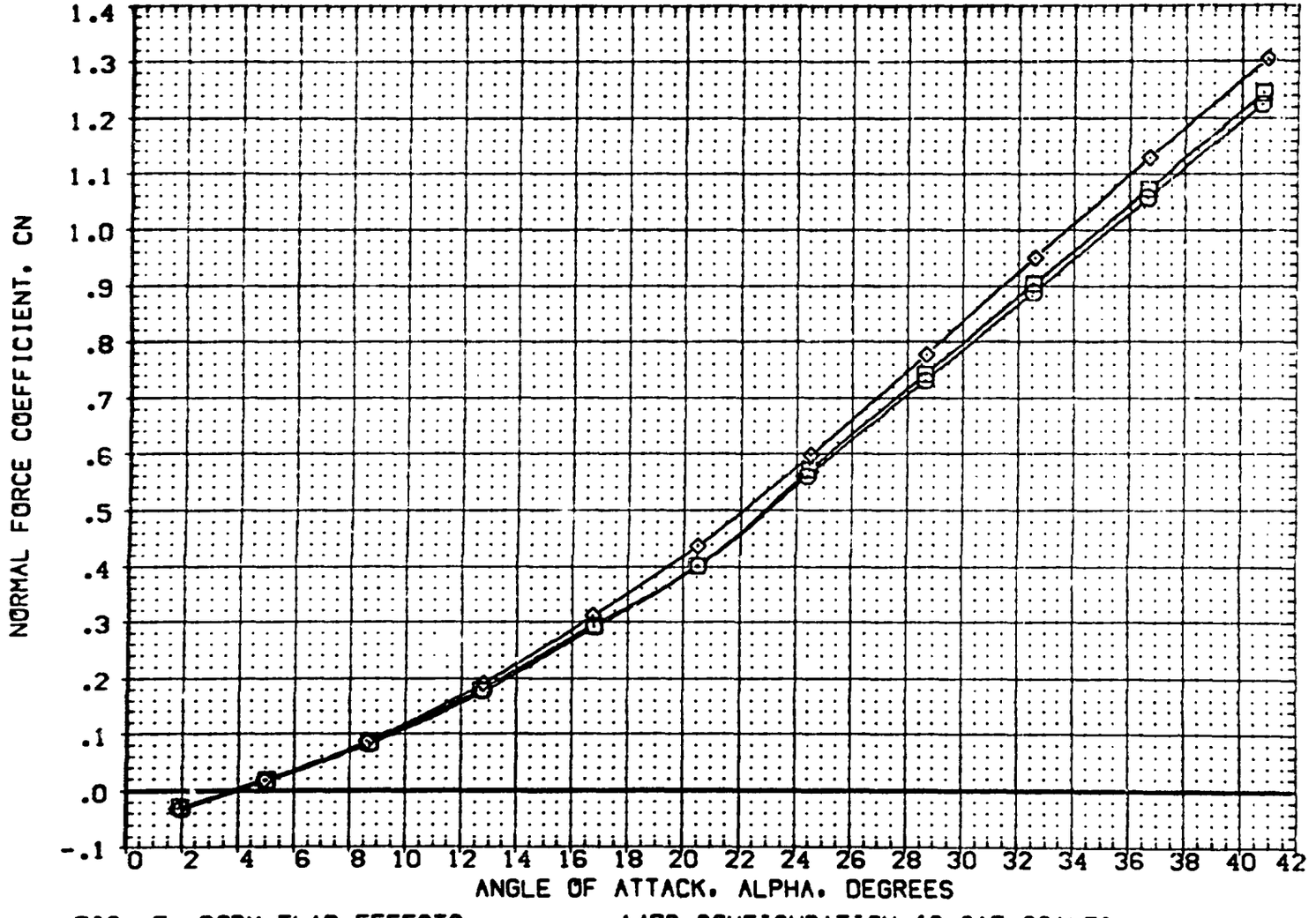


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)	⋈	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	△	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.6800	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

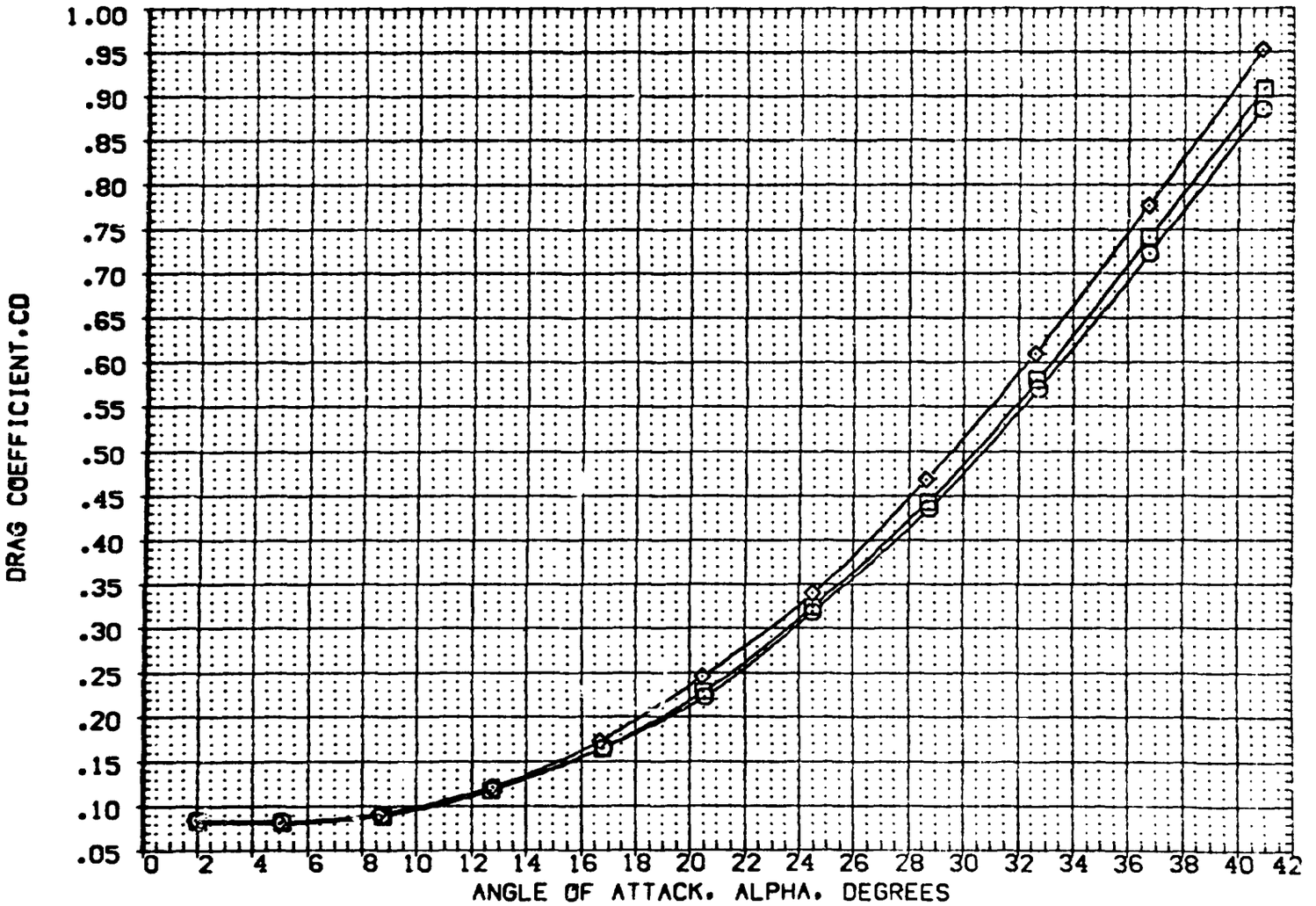


FIG. 3 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)	◁	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6006)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

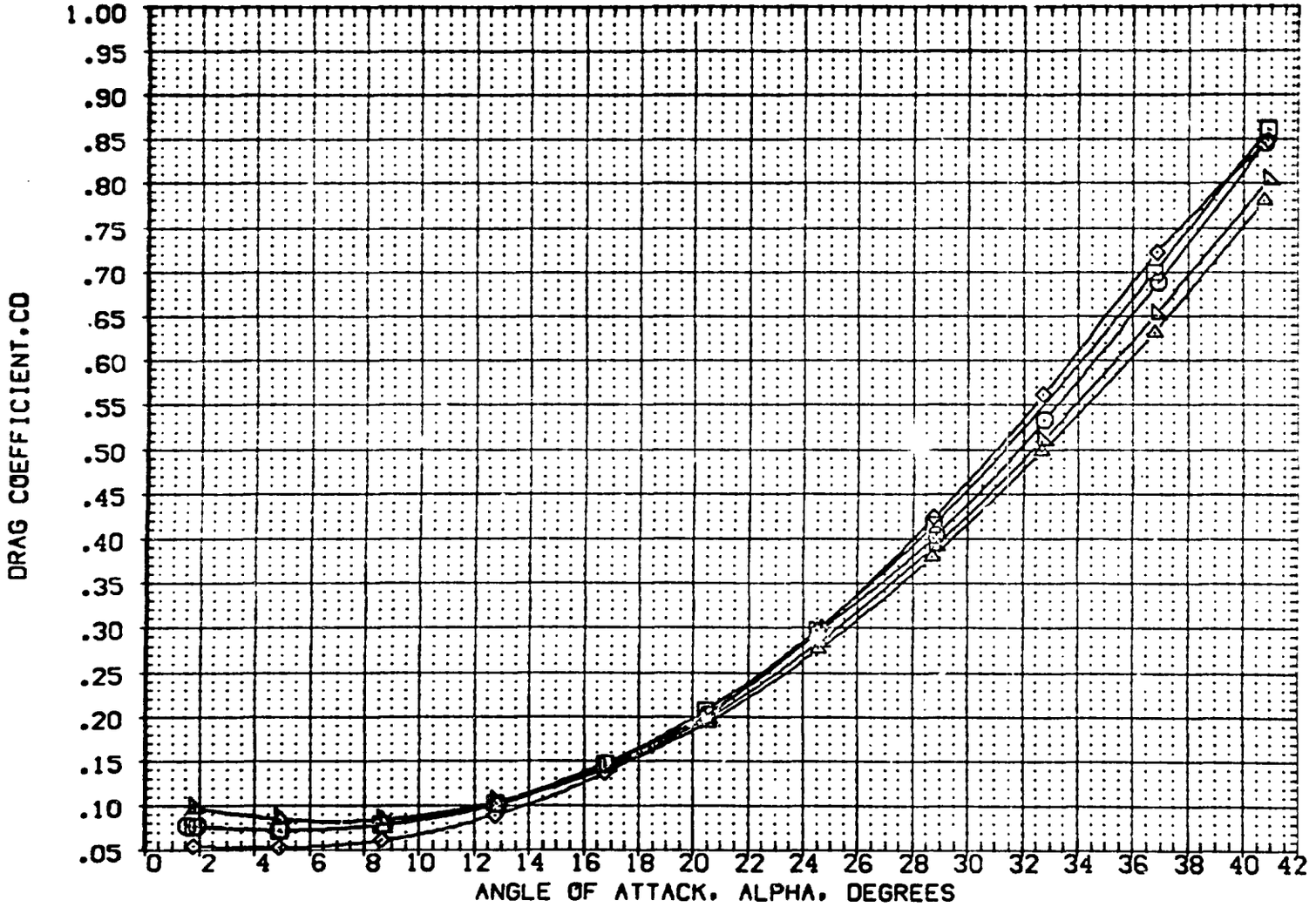


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	▽	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	336.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

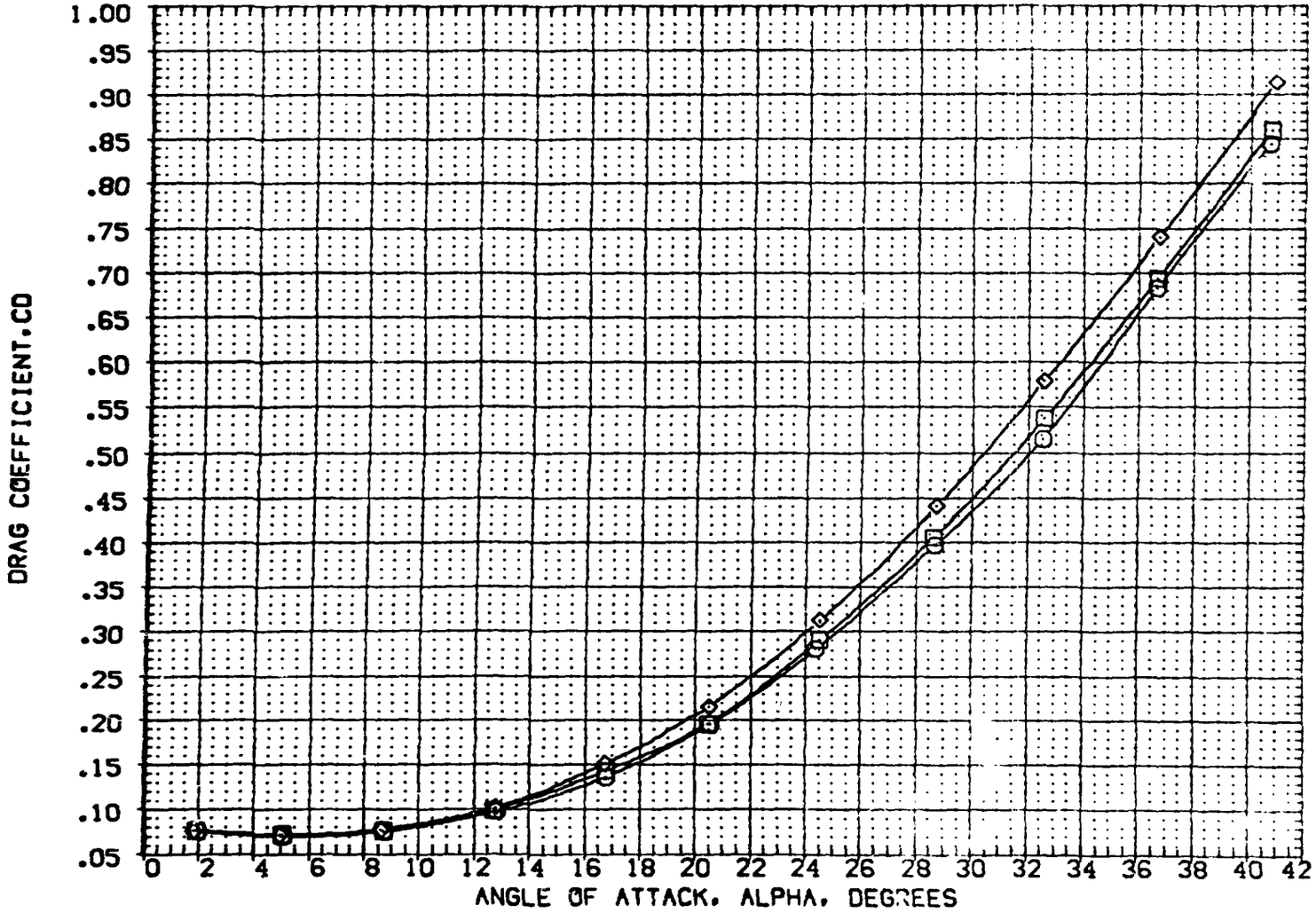


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)		DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)		DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

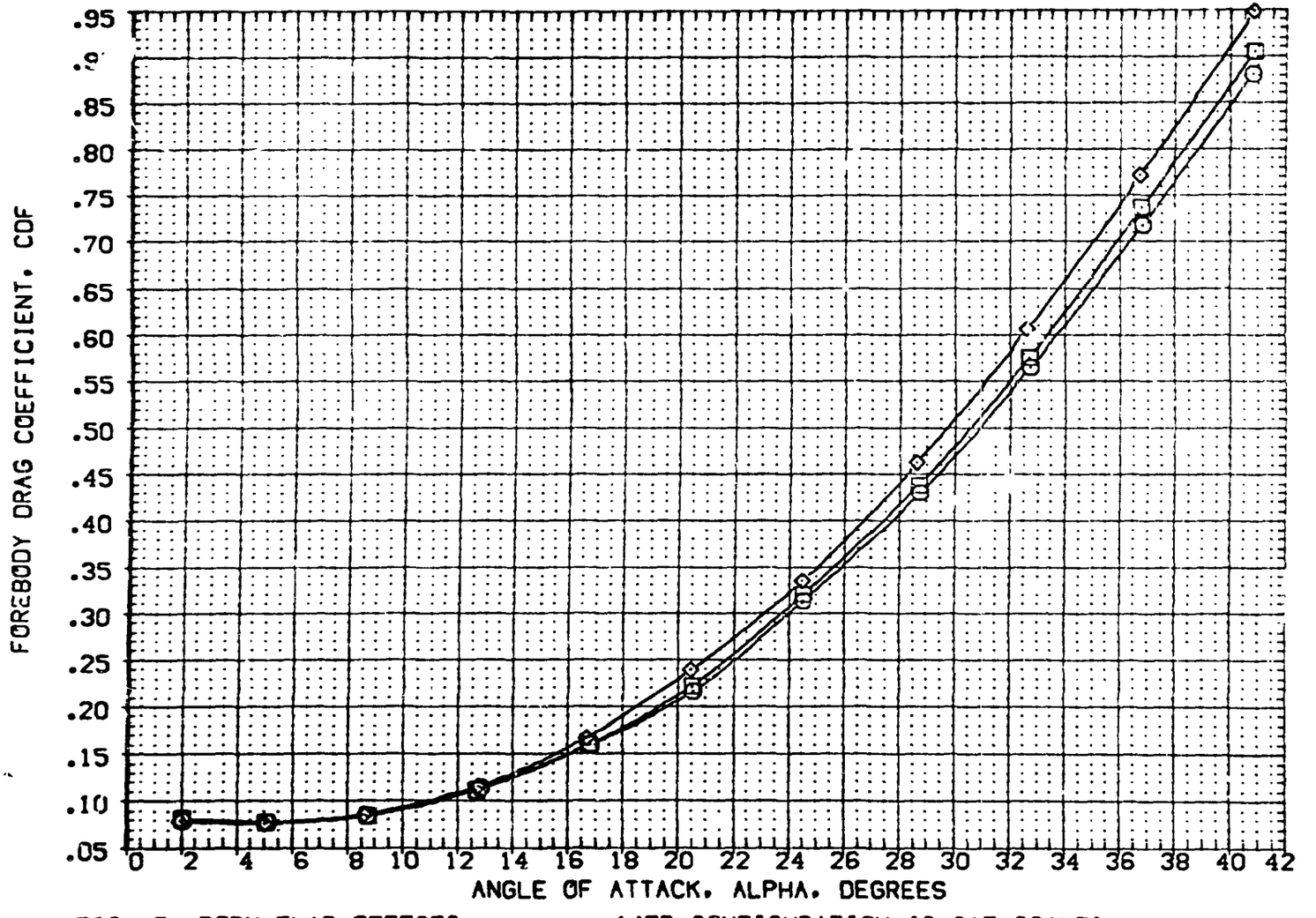


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)	△	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6006)	◁	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	976.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

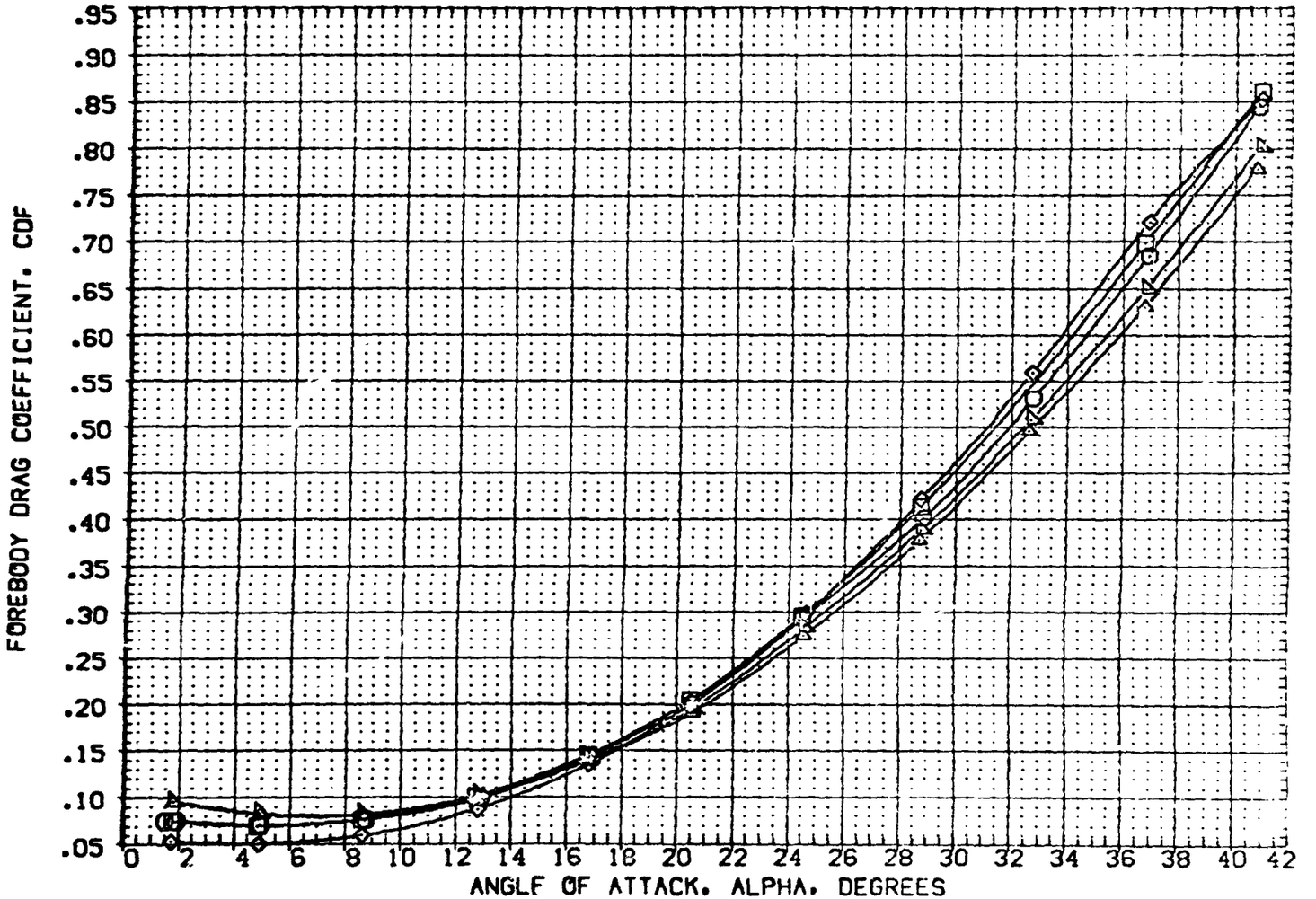


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH - 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	▷	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

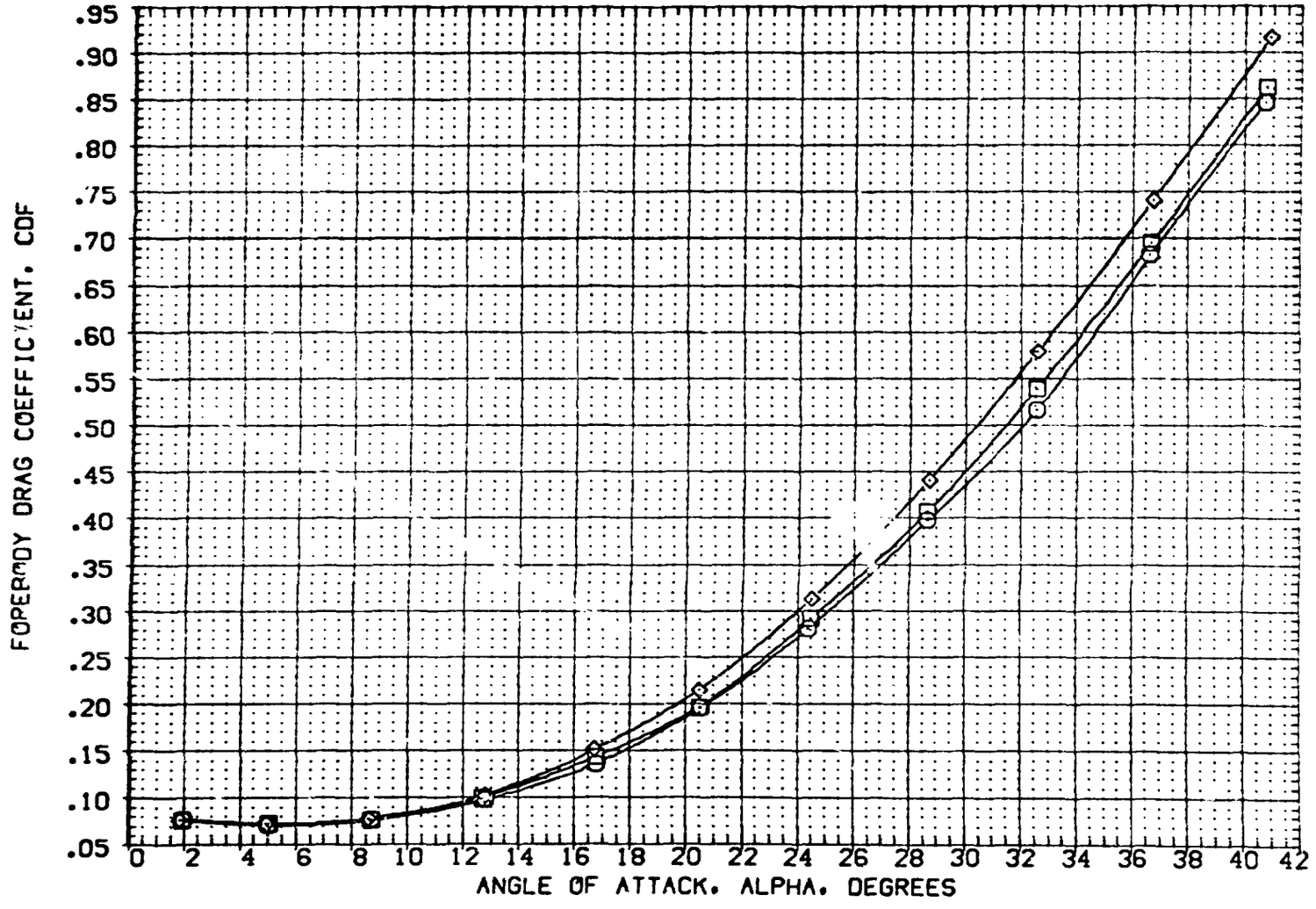


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB60C3)		DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)		DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)		AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)		AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)		AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)		AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6006)		AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.6800	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

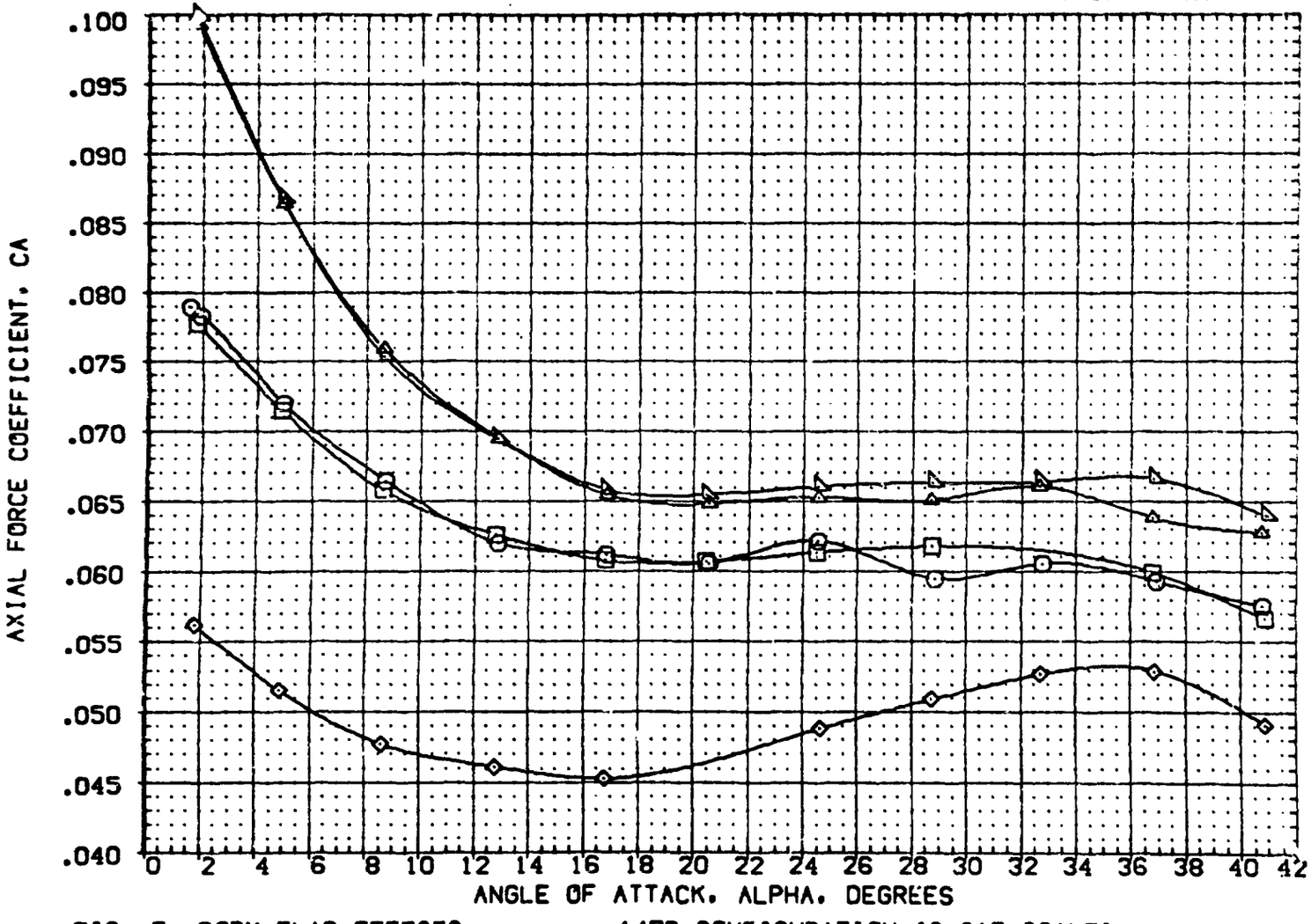


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1078.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

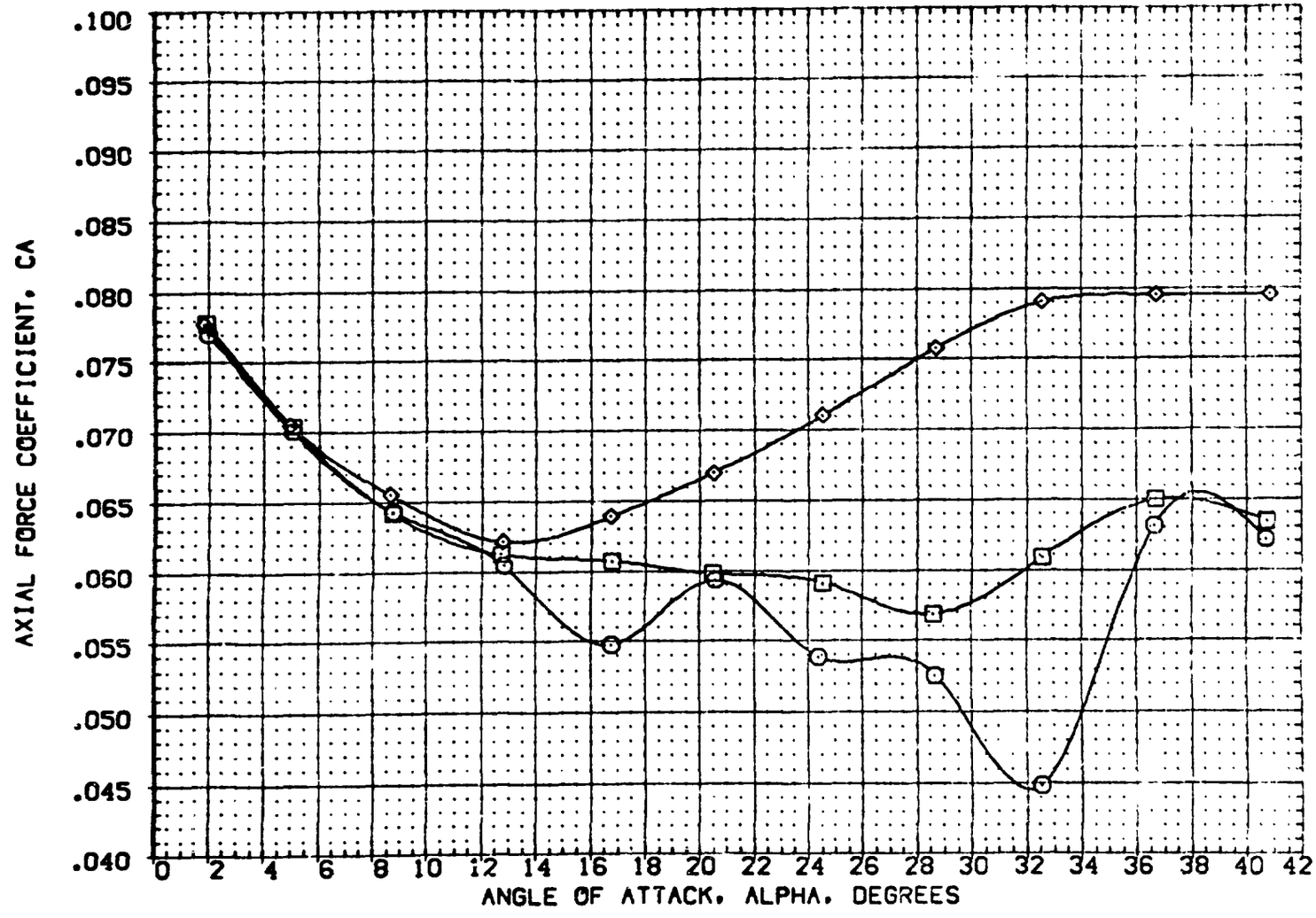


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	◺	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.1800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

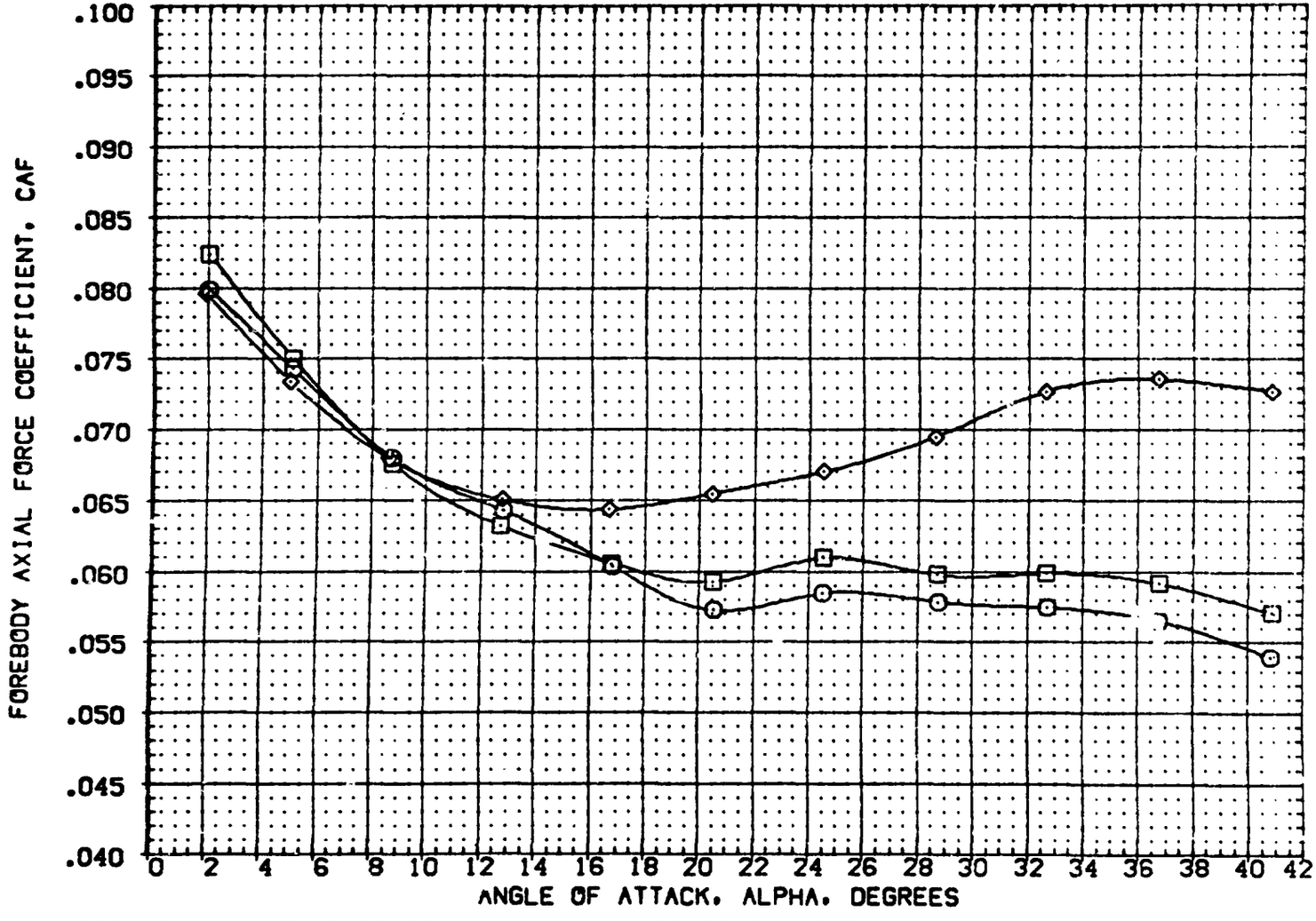


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6006)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	776.4600	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

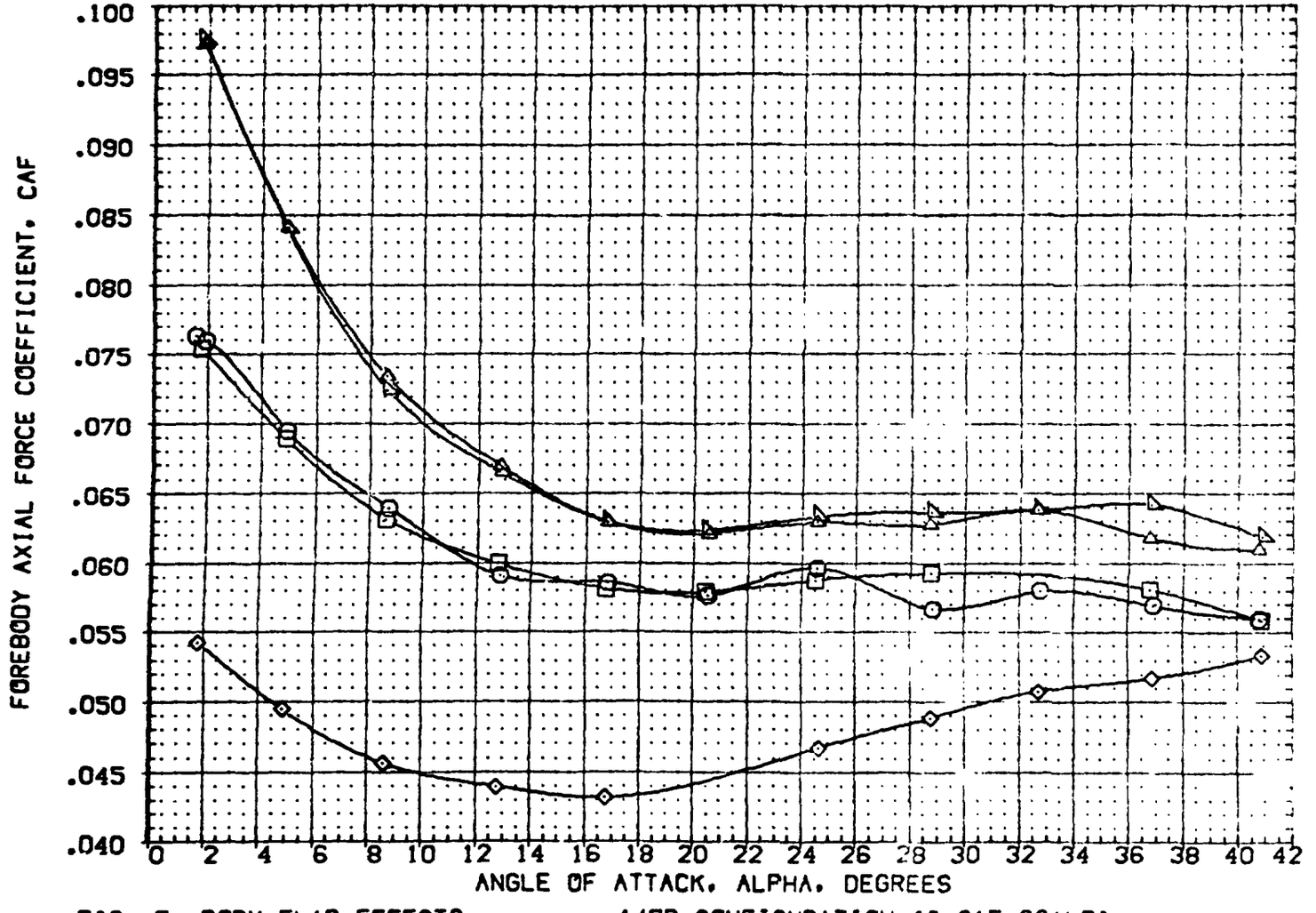


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	▽	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

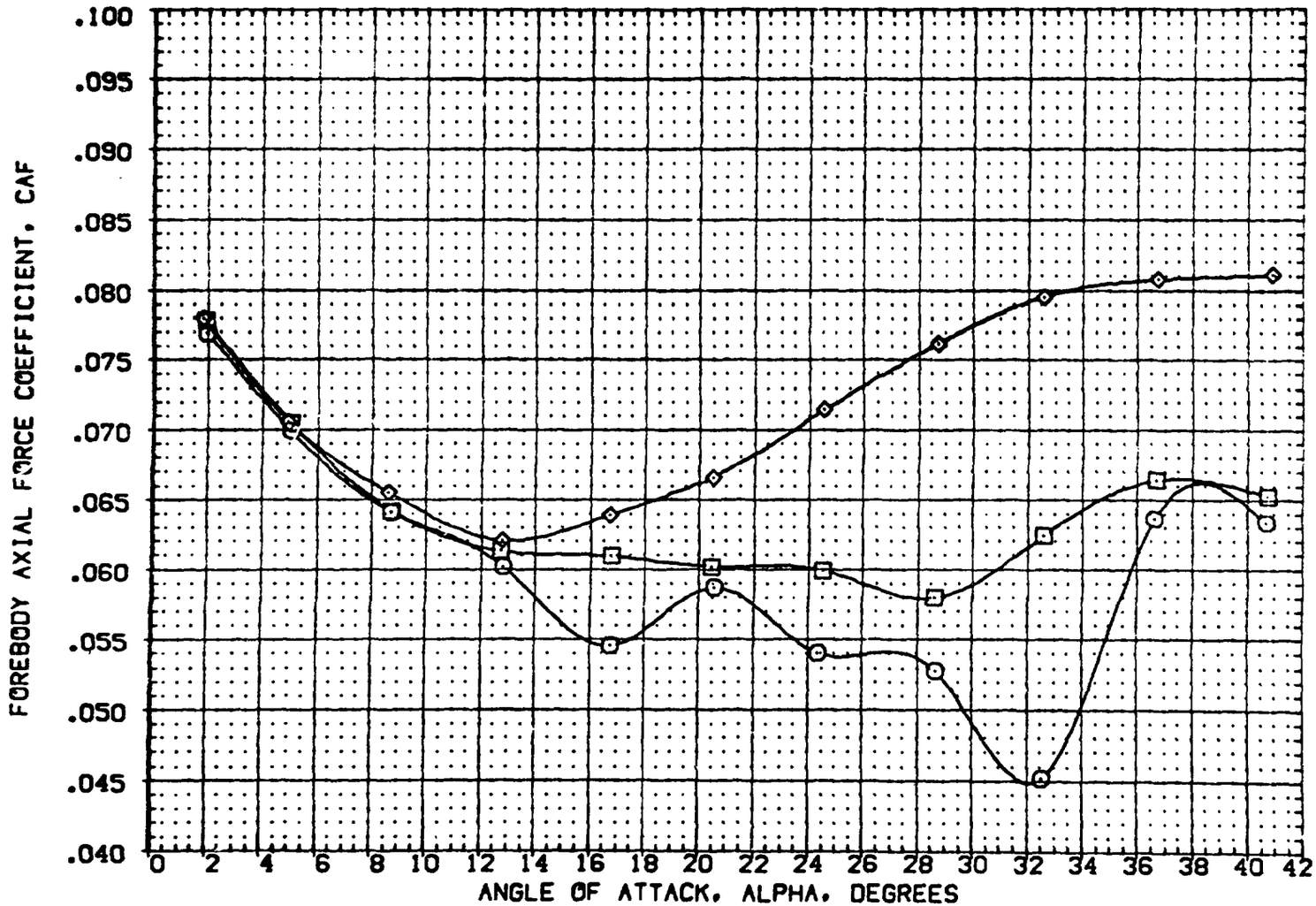


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	△	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

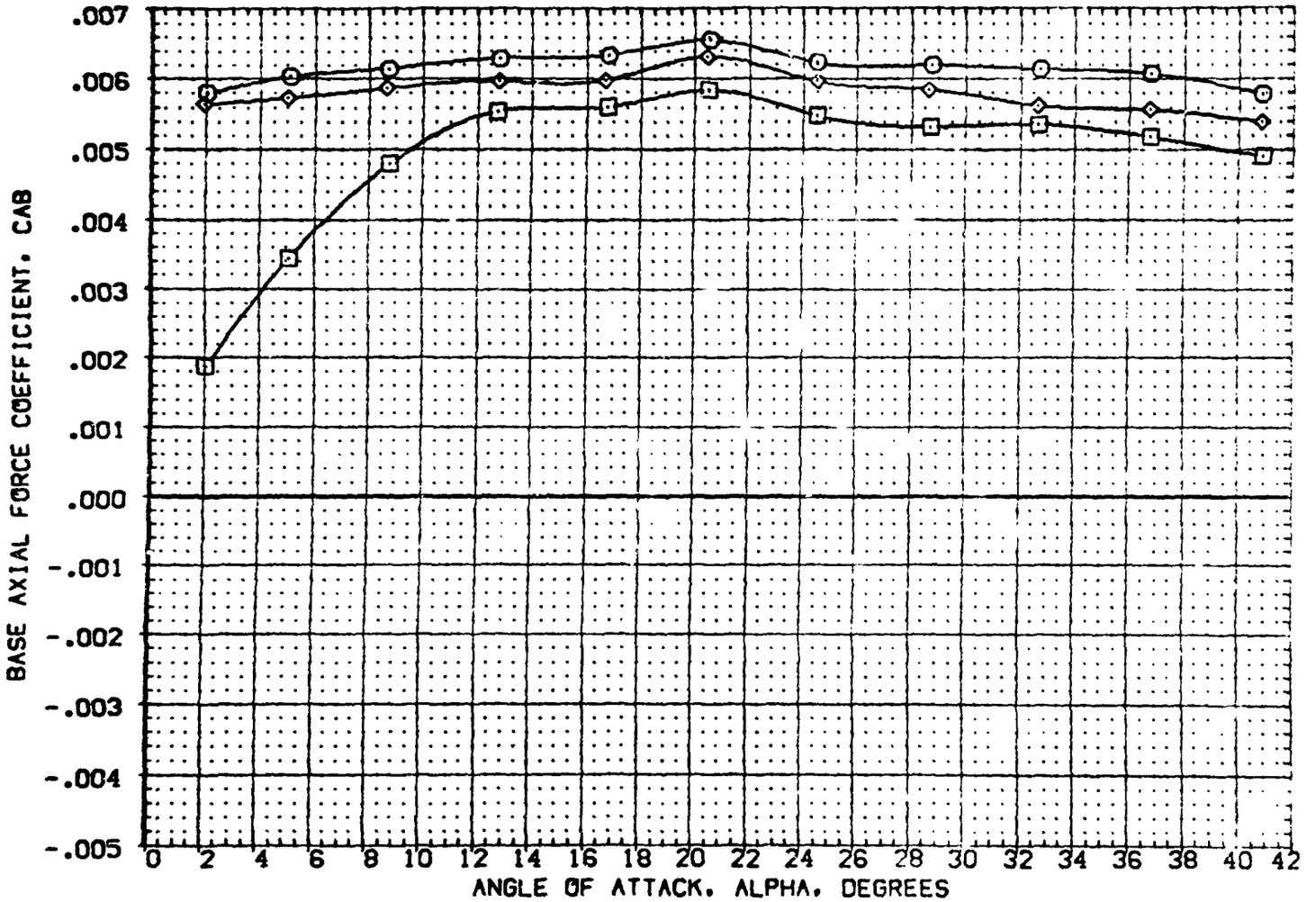


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	▽	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6006)	◁	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

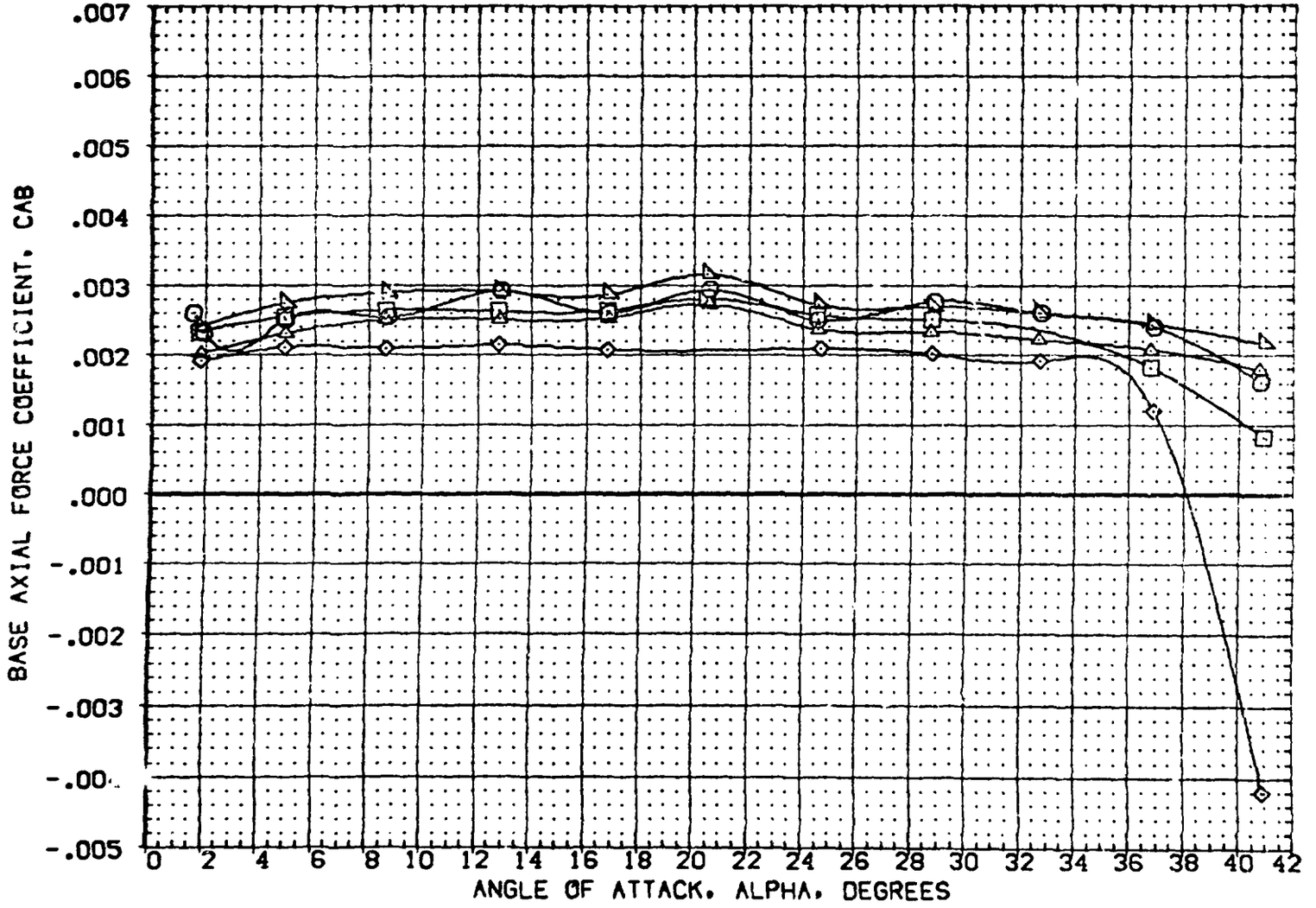


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	▷	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

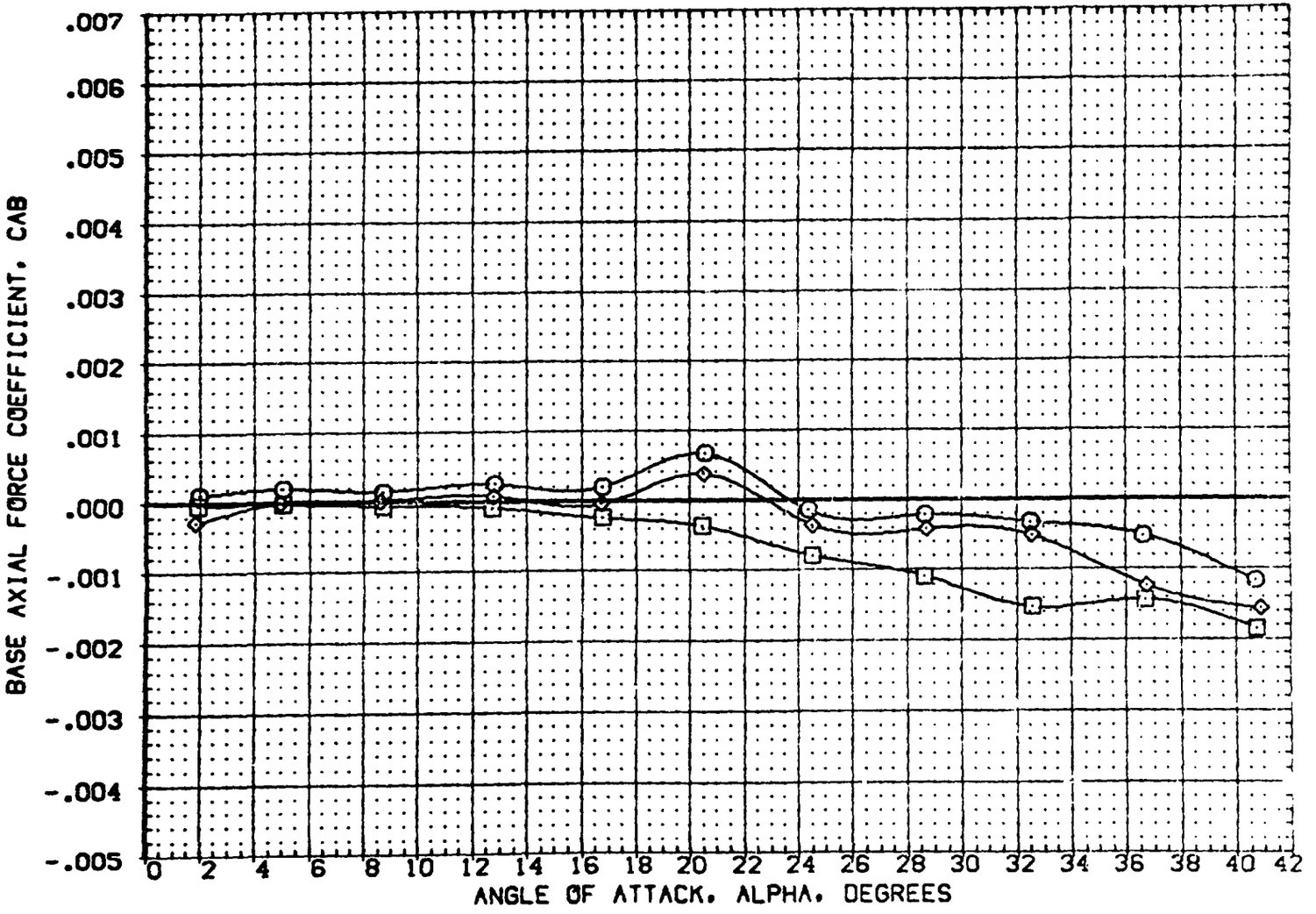


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
[CB6001]		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
[CB6007]		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
[CB6008]		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
[JB6003]		DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
[CB6006]		DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

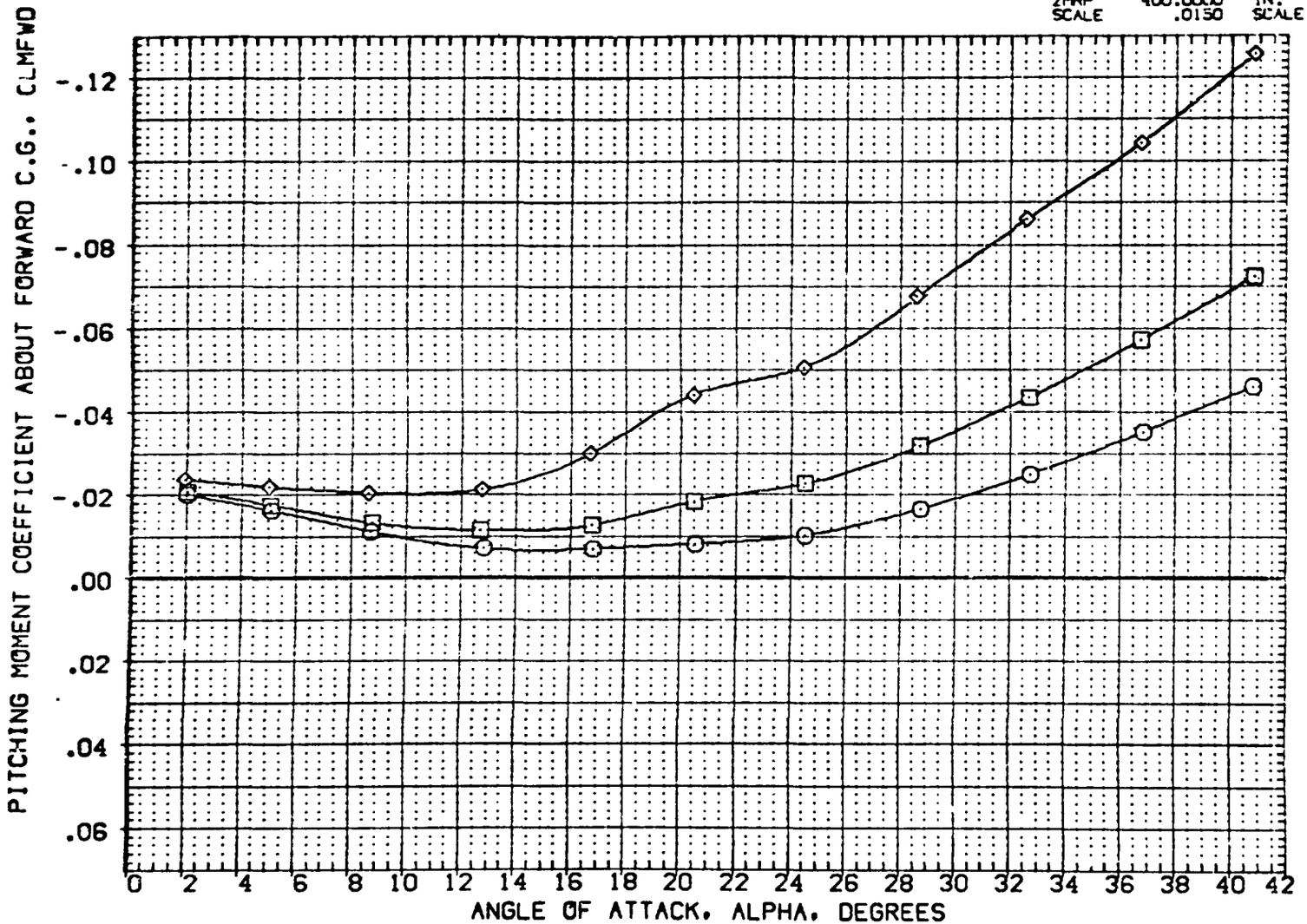


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6006)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6006)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

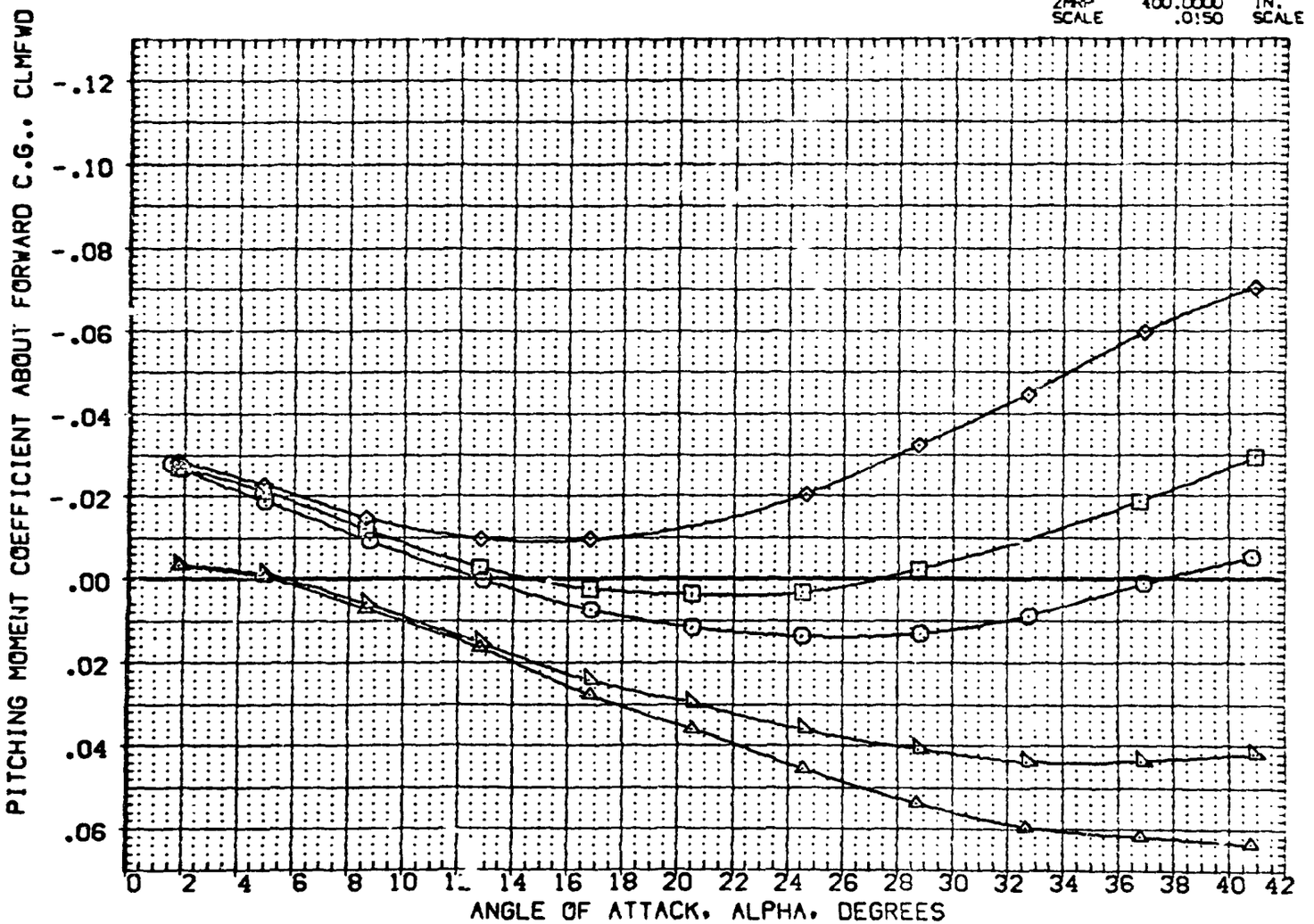


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)	⋈	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	△	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

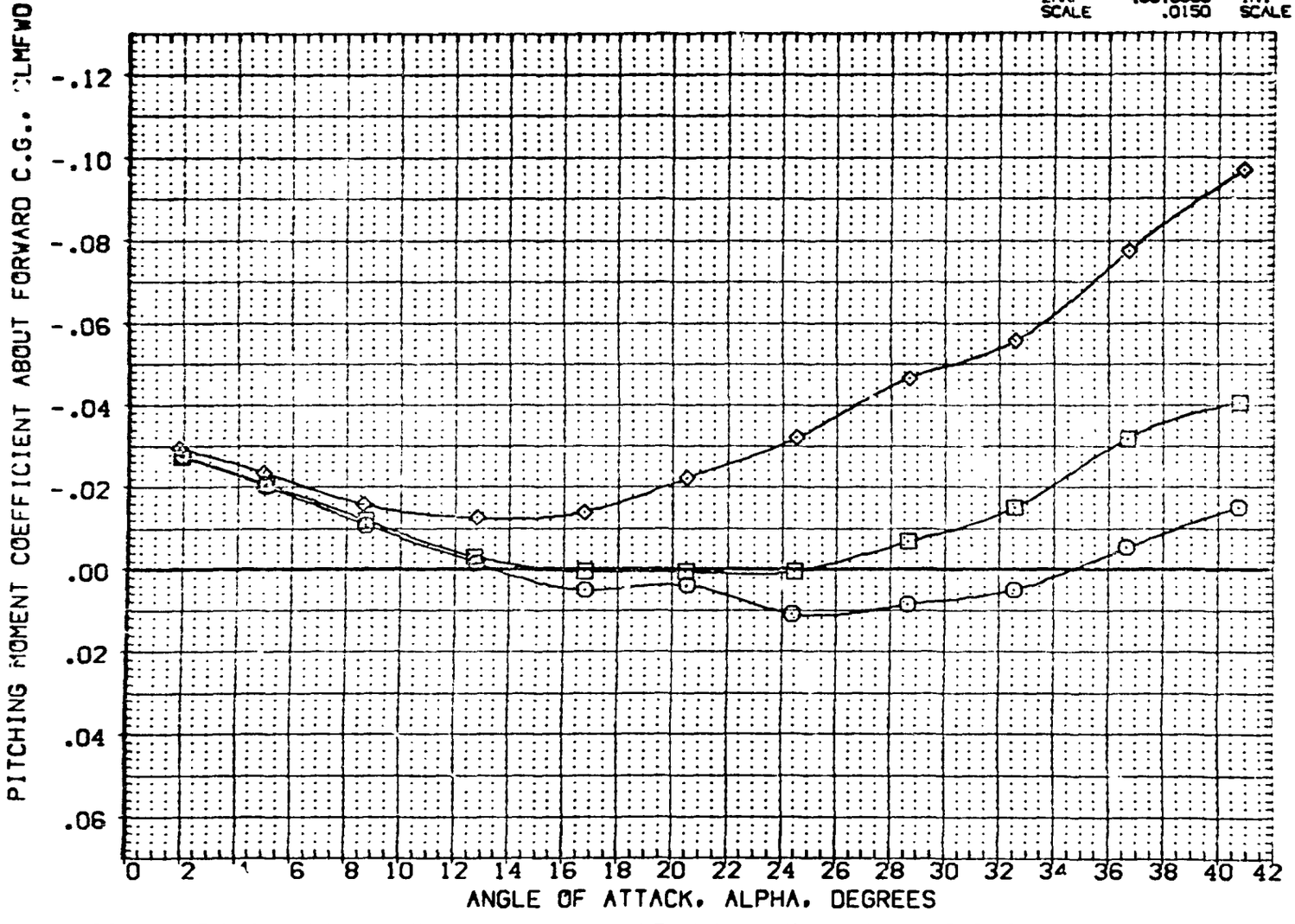


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)		DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)		DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

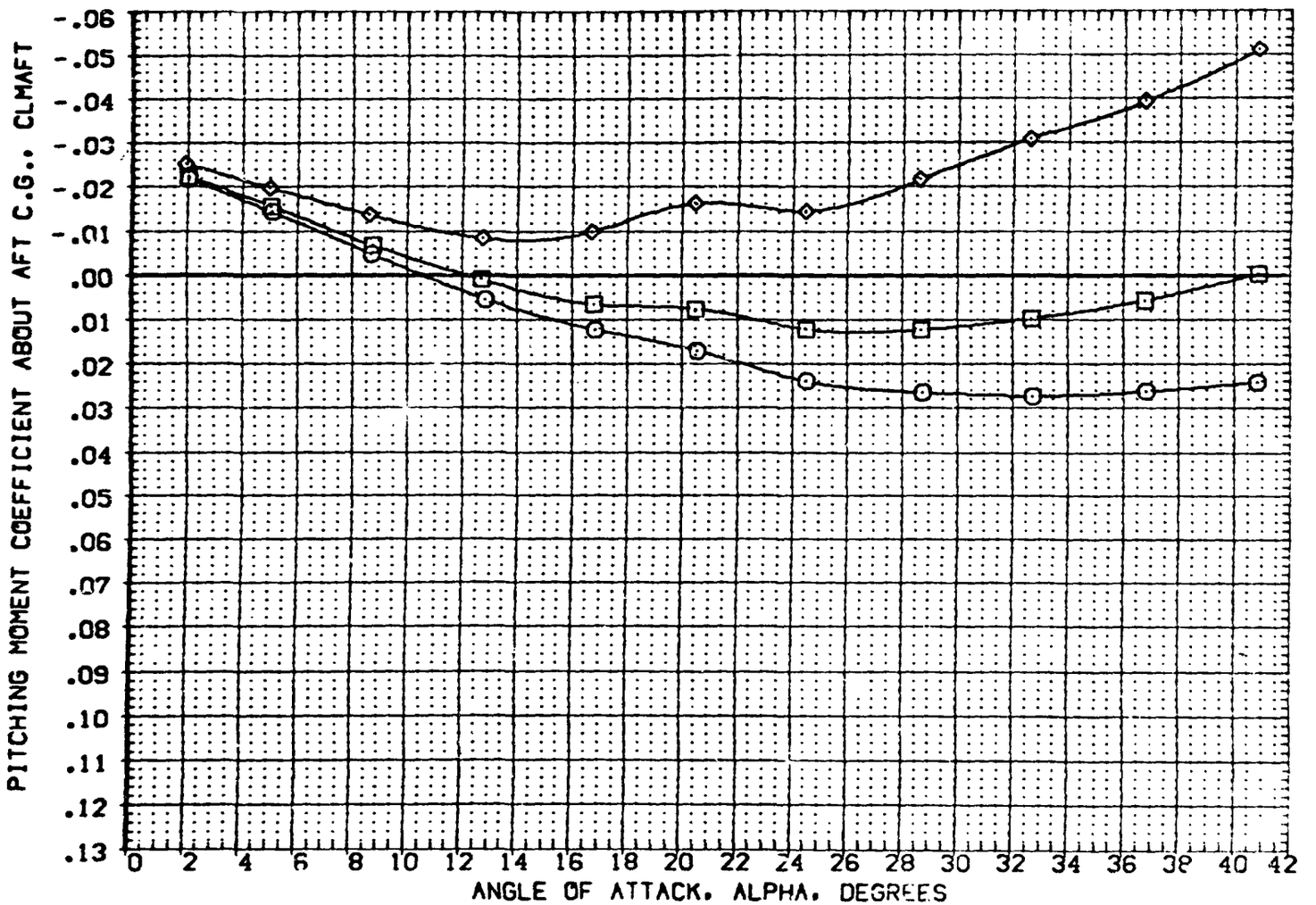


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(CB6003)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6006)	▷	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

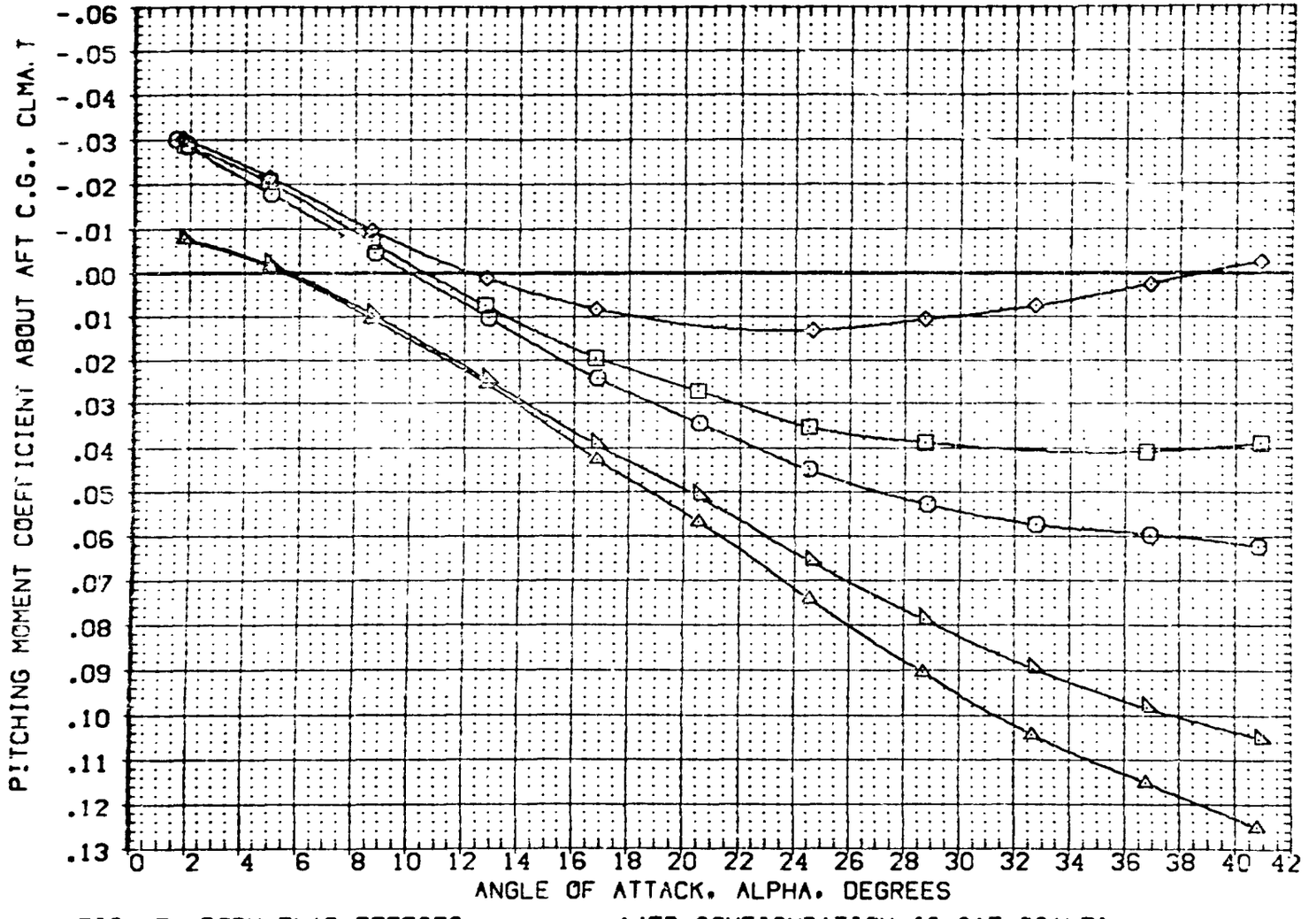


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(3)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)		DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)		DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

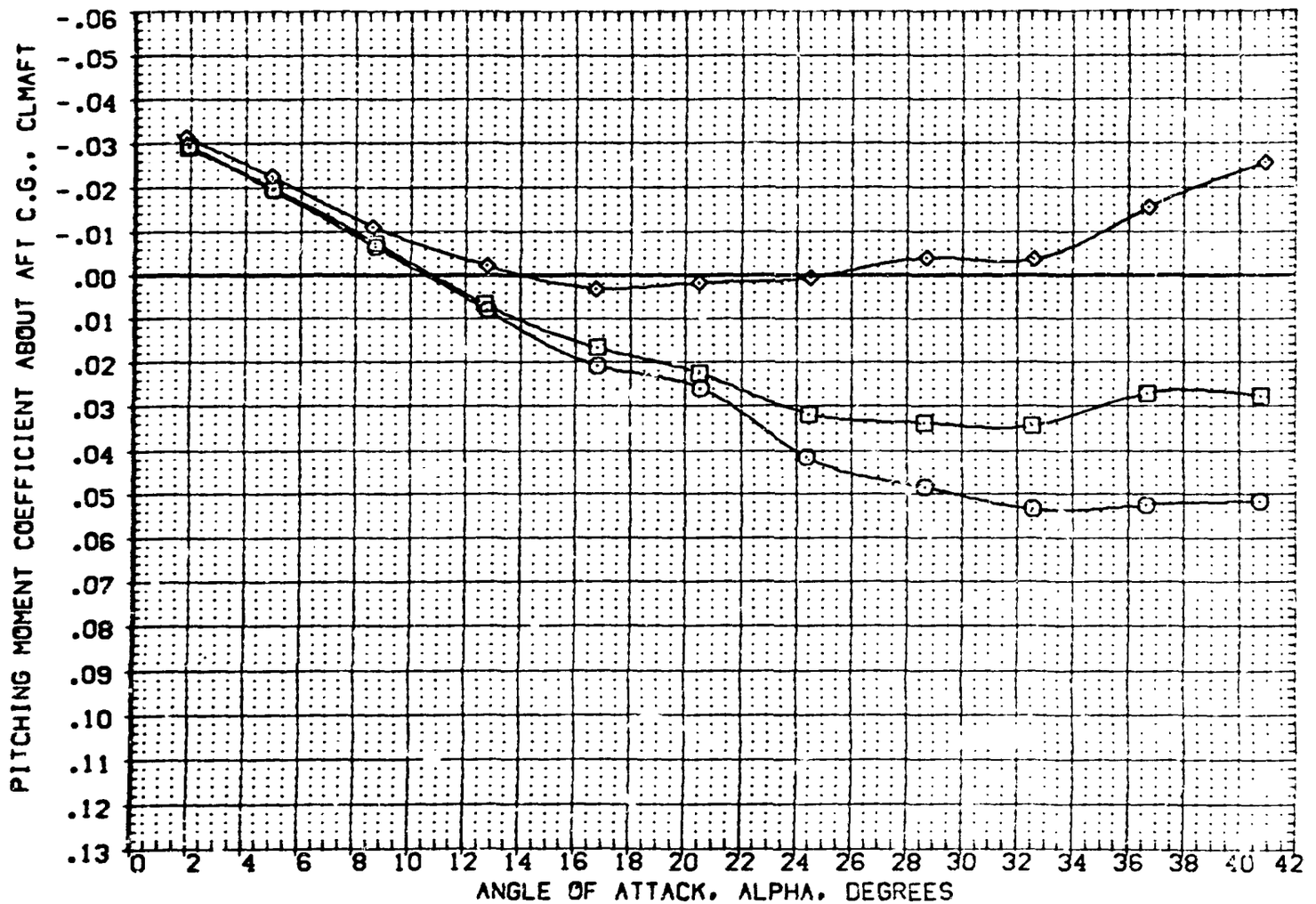


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 VIC	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 VIC	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 VIC	.000	13.750	55.000	.000
(CB6003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	△	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

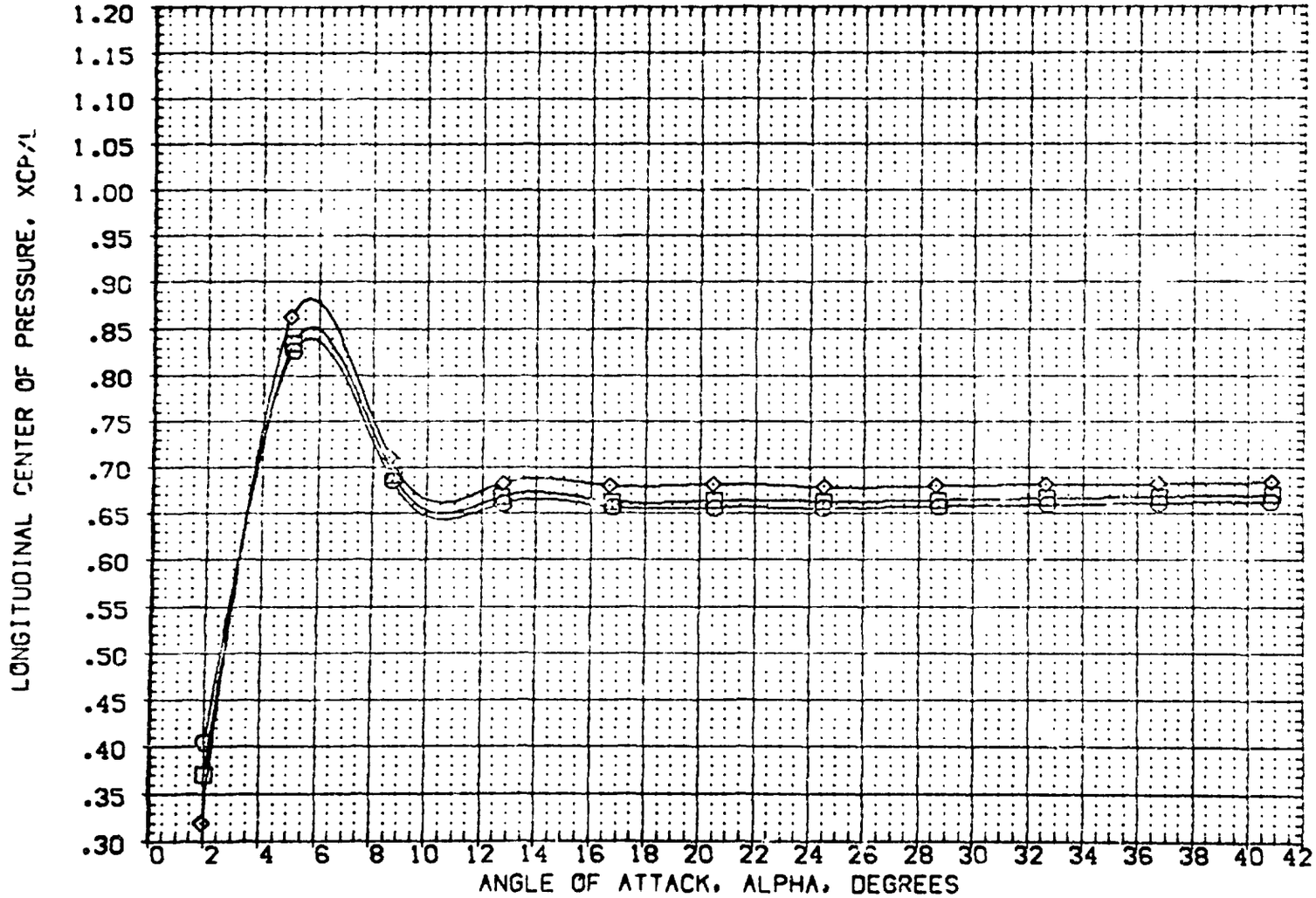


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(CB6003)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6006)	▽	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

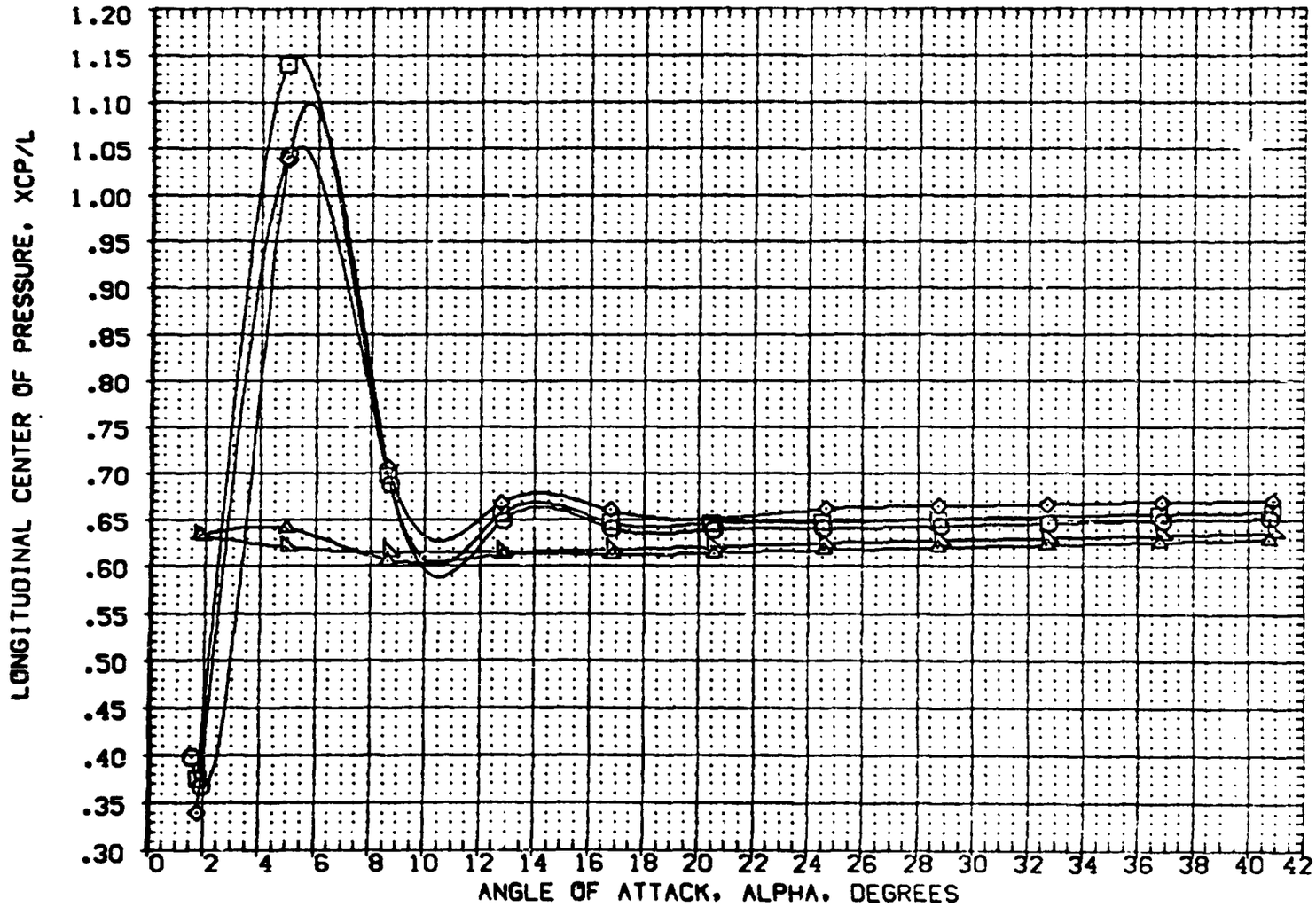


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	▽	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

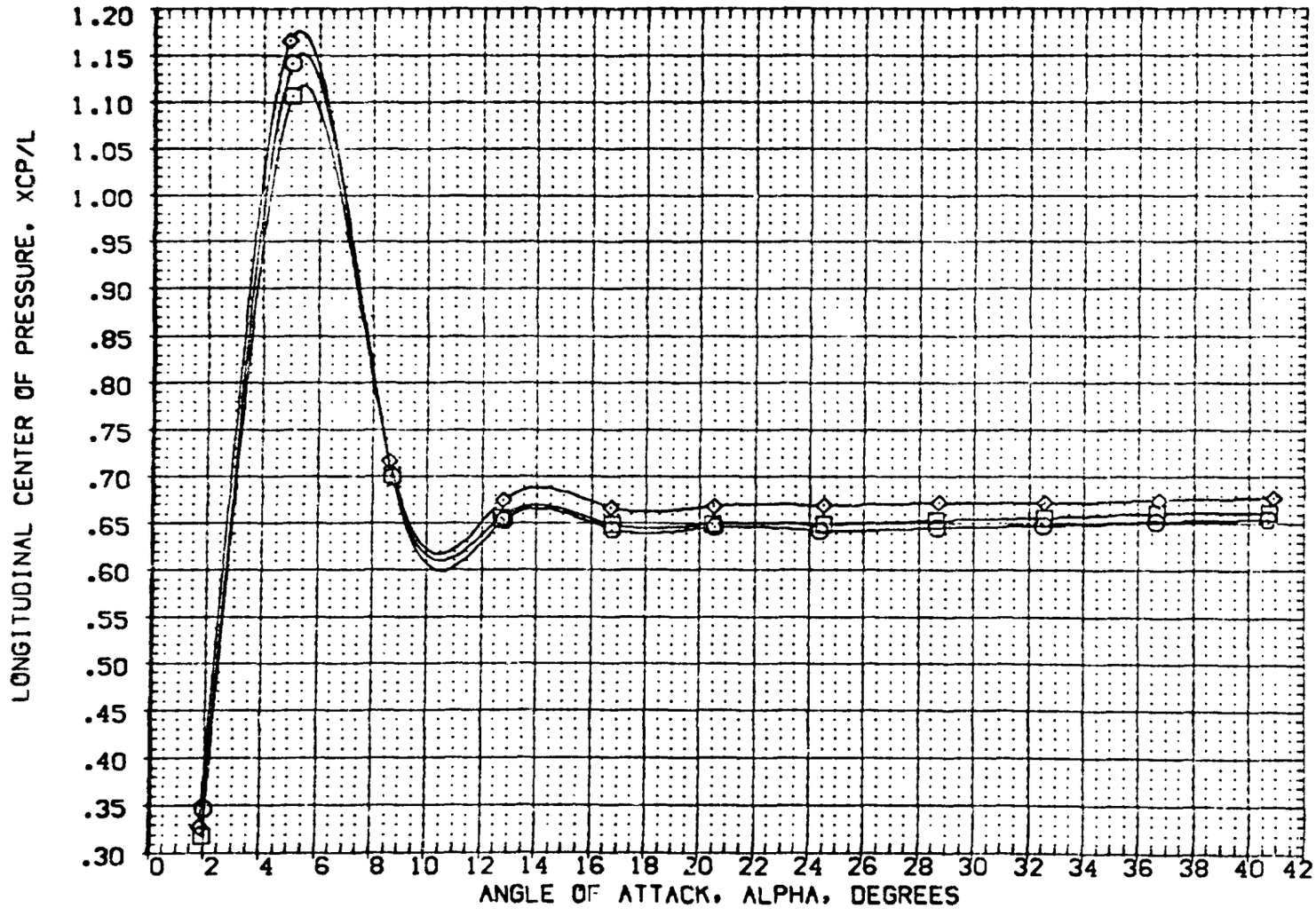


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(886001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(886007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(886008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(286003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(886006)	▷	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(886001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(886007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(886008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(886003)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(886006)	▷	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

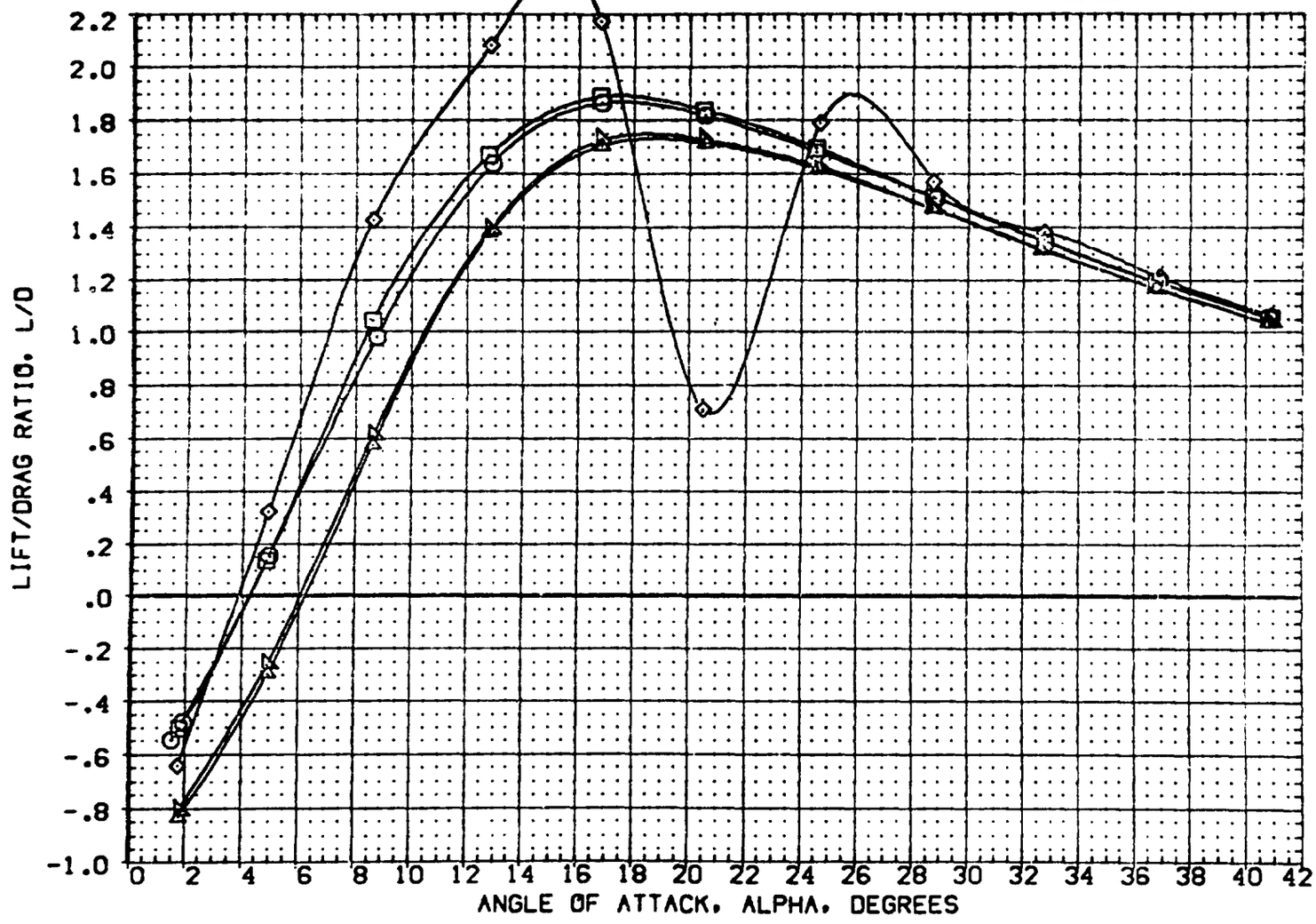


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(886001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(886007)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(886008)	◇	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(286003)	⋈	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(886006)	◺	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	100.0000	IN.
SCALE	.0150	SCALE

FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)		AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)		AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)		AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)		DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)		DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

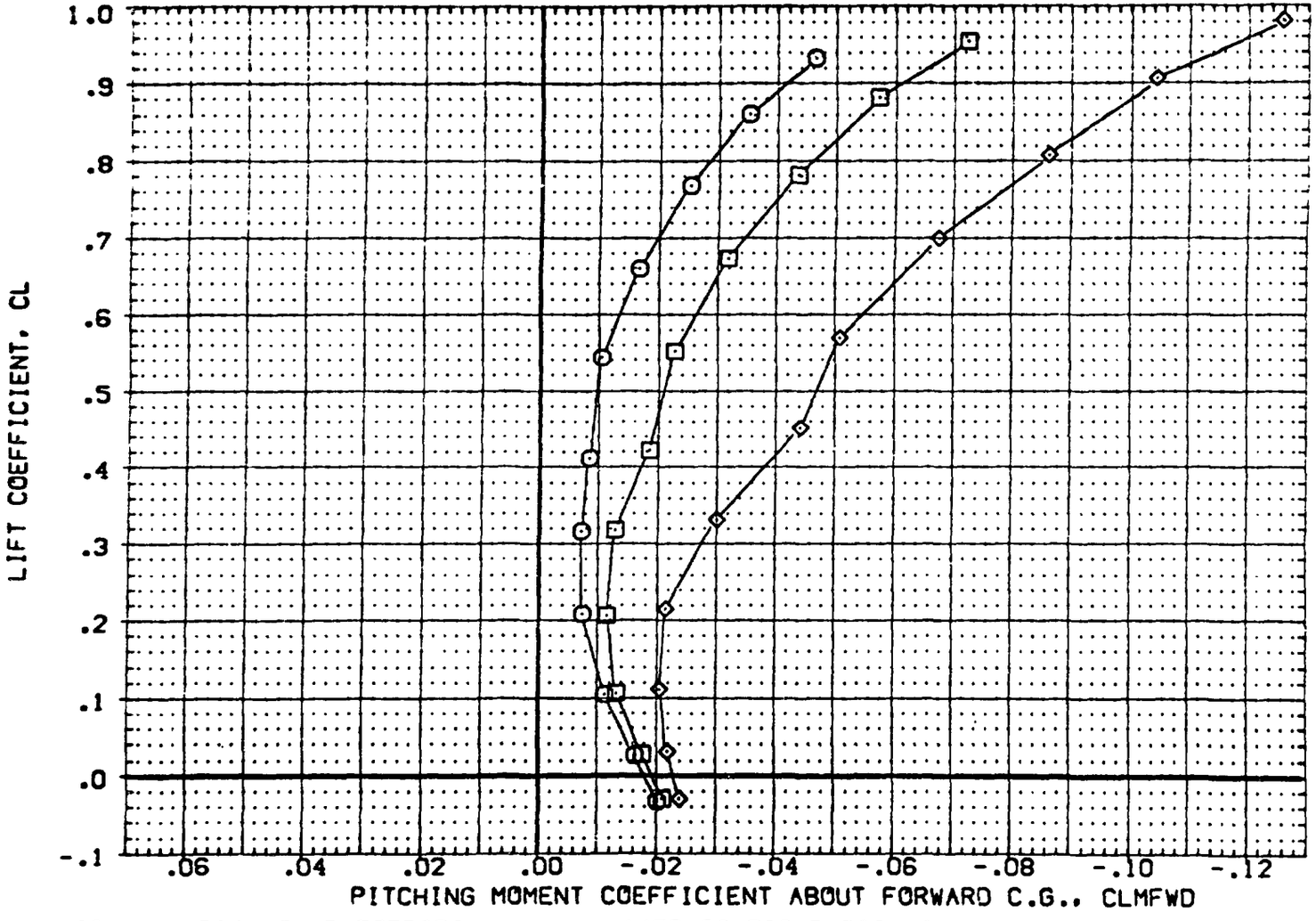


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6006)	◁	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

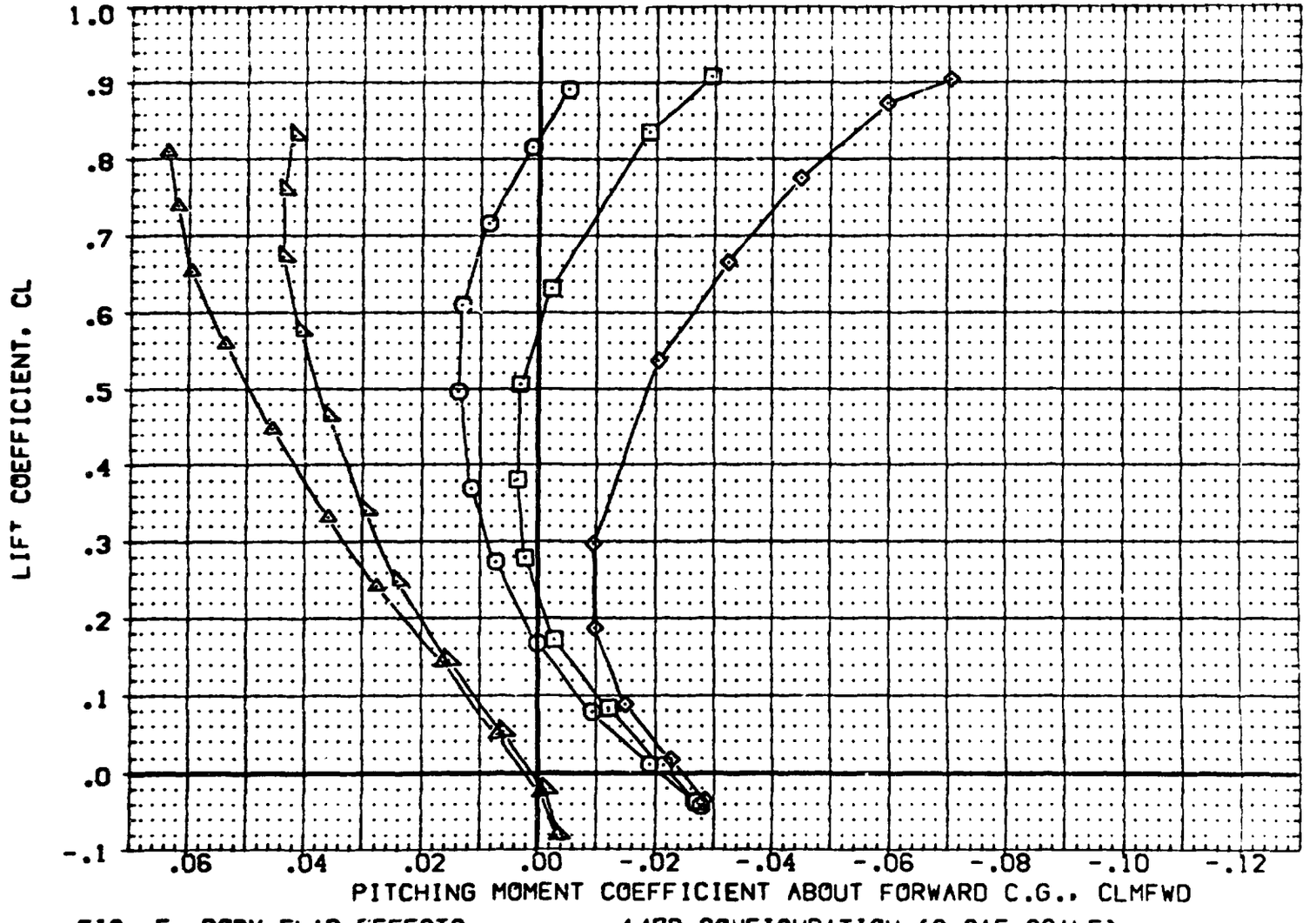


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(CB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	◁	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

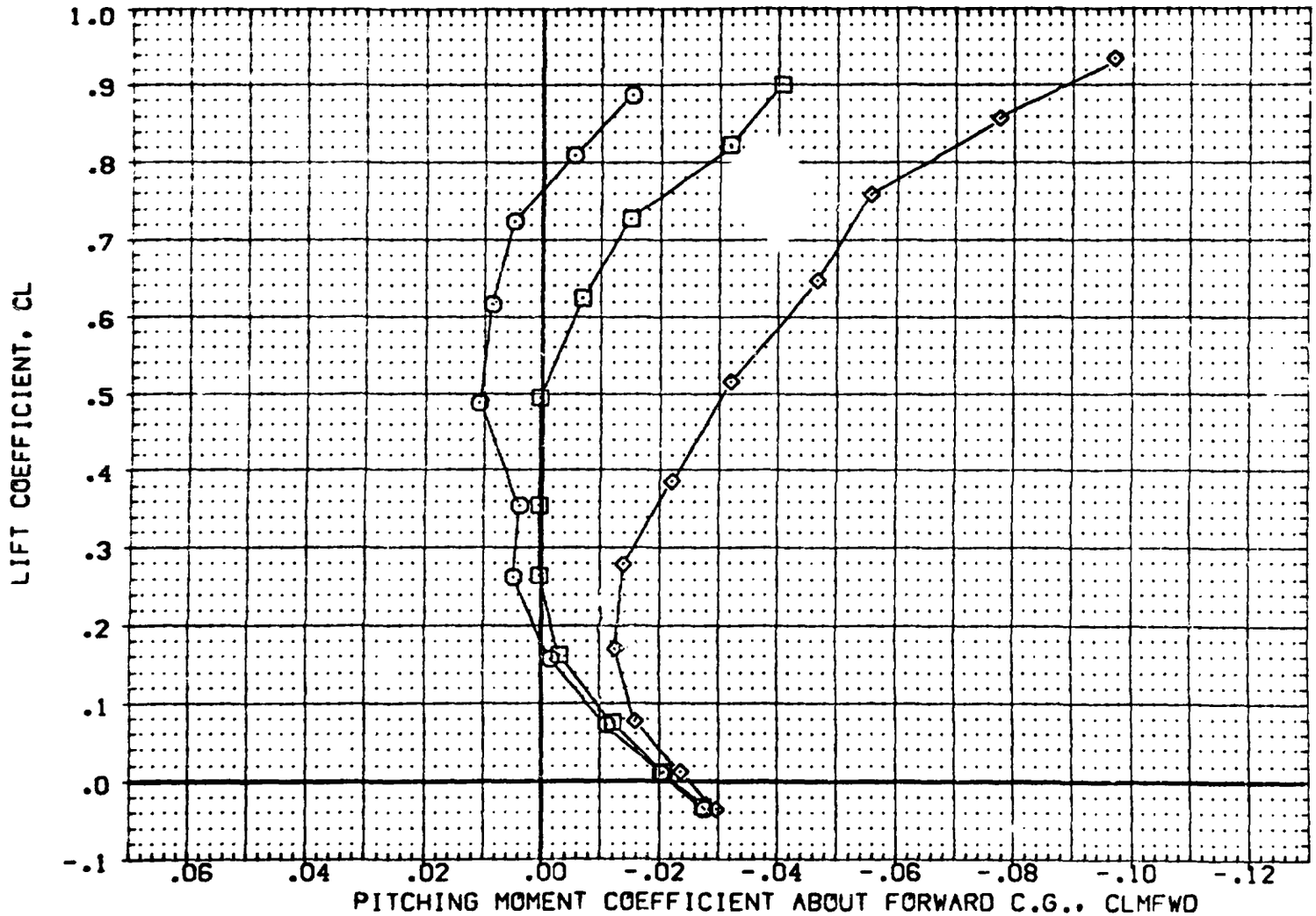


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	▷	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

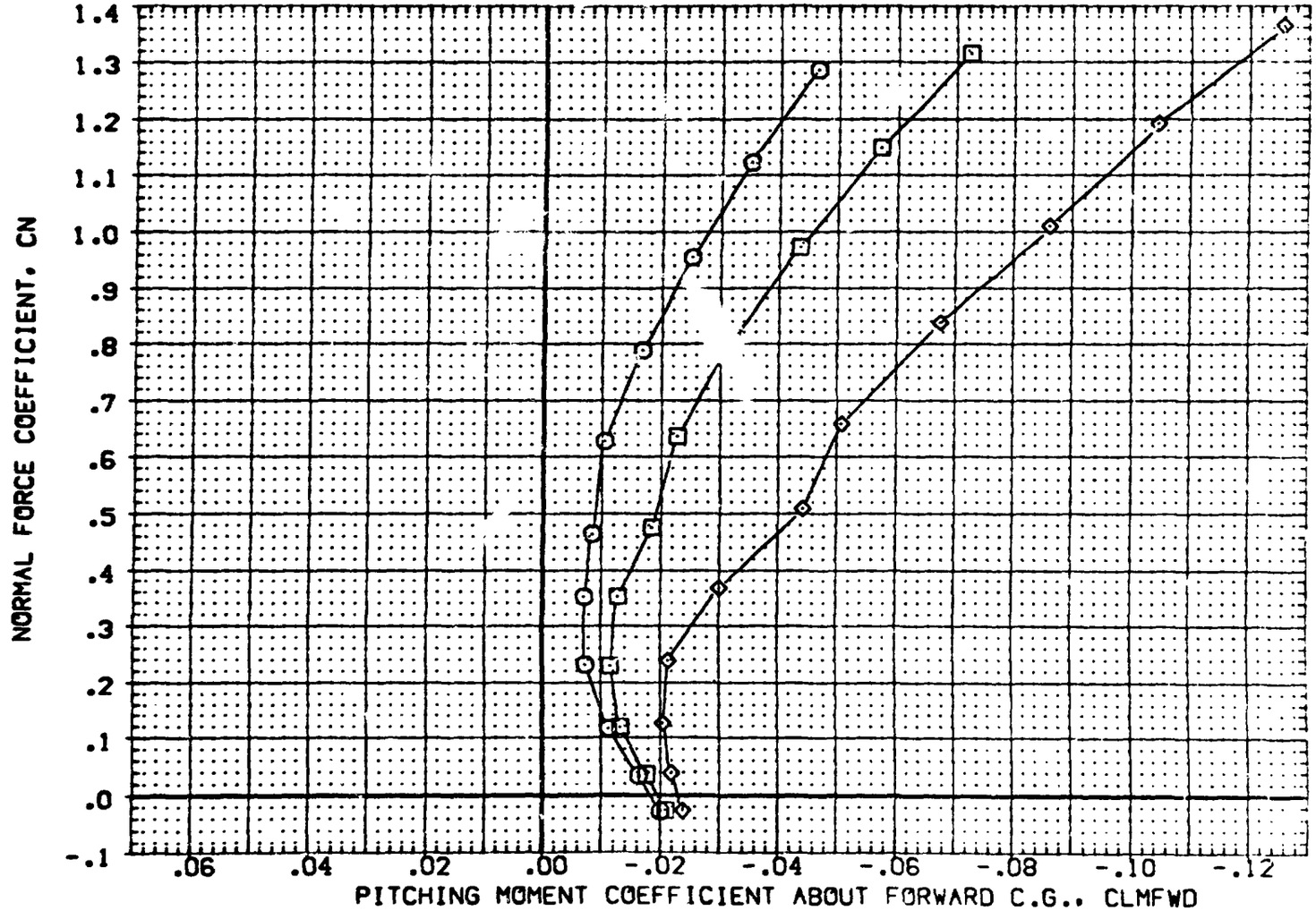


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)	△	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6006)	◺	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

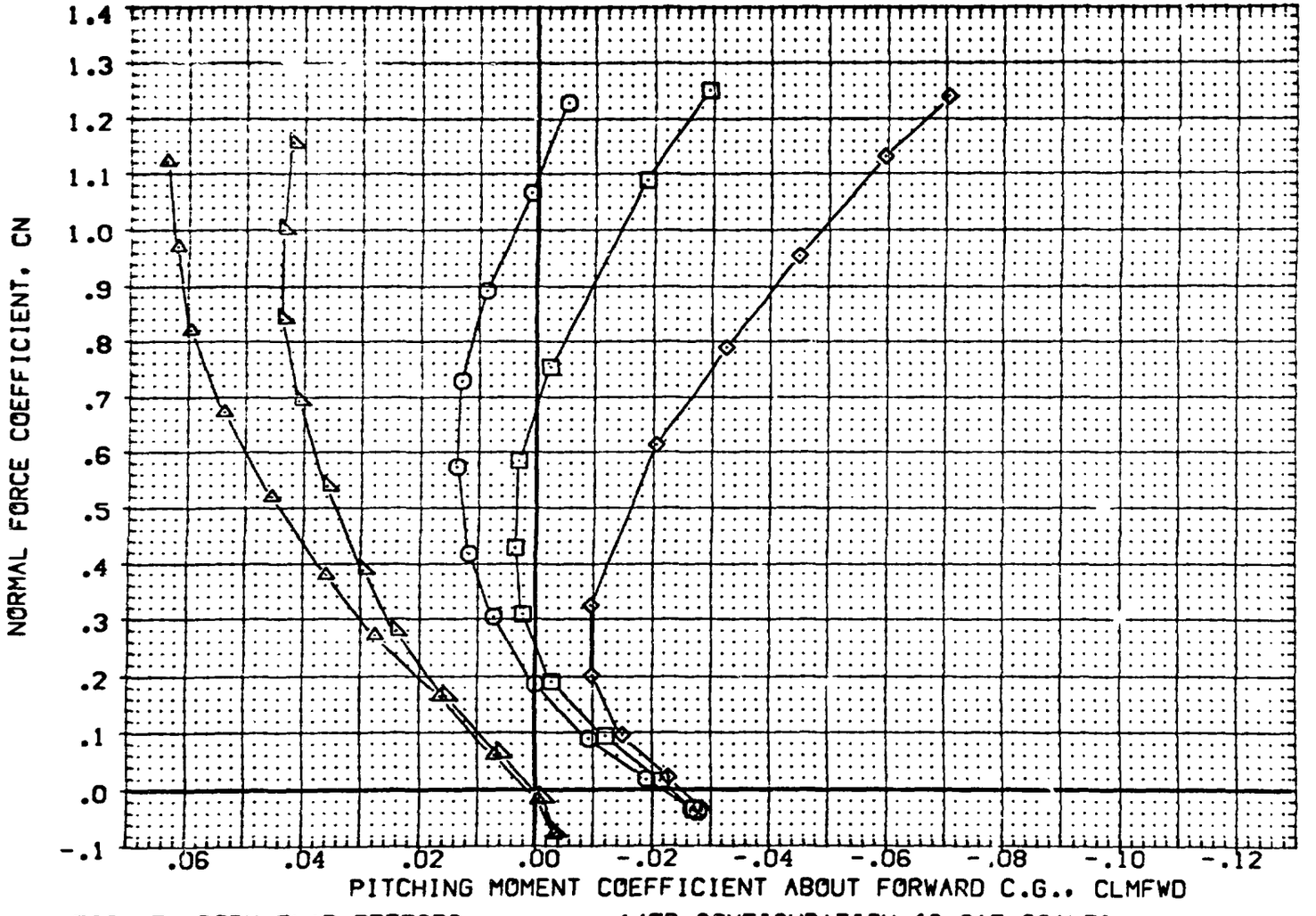


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6001)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6008)	◺	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

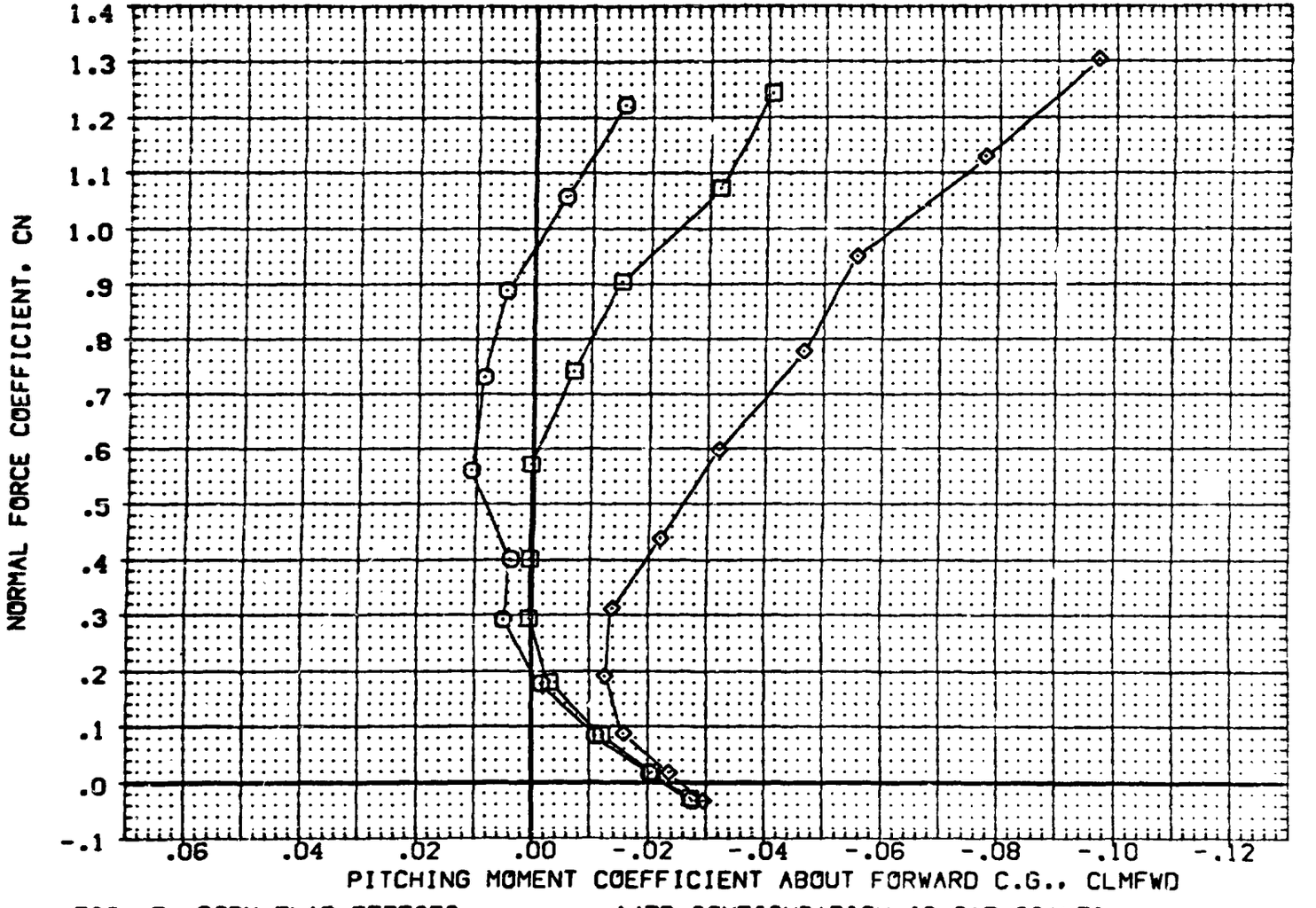


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6001)		AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)		AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)		AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB6003)		DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)		DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

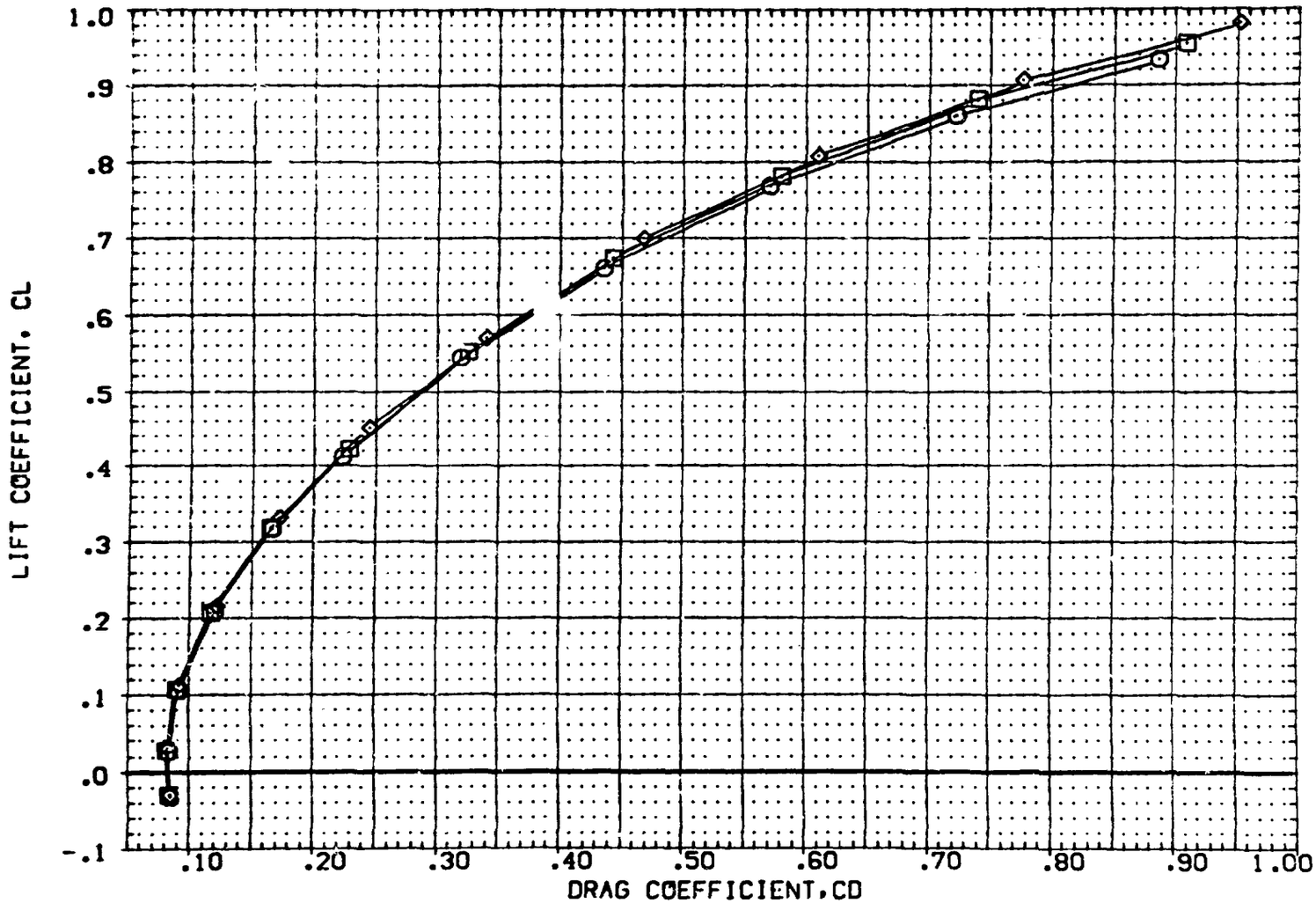


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6001)	○	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(JB60 3)	⋈	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6006)	△	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

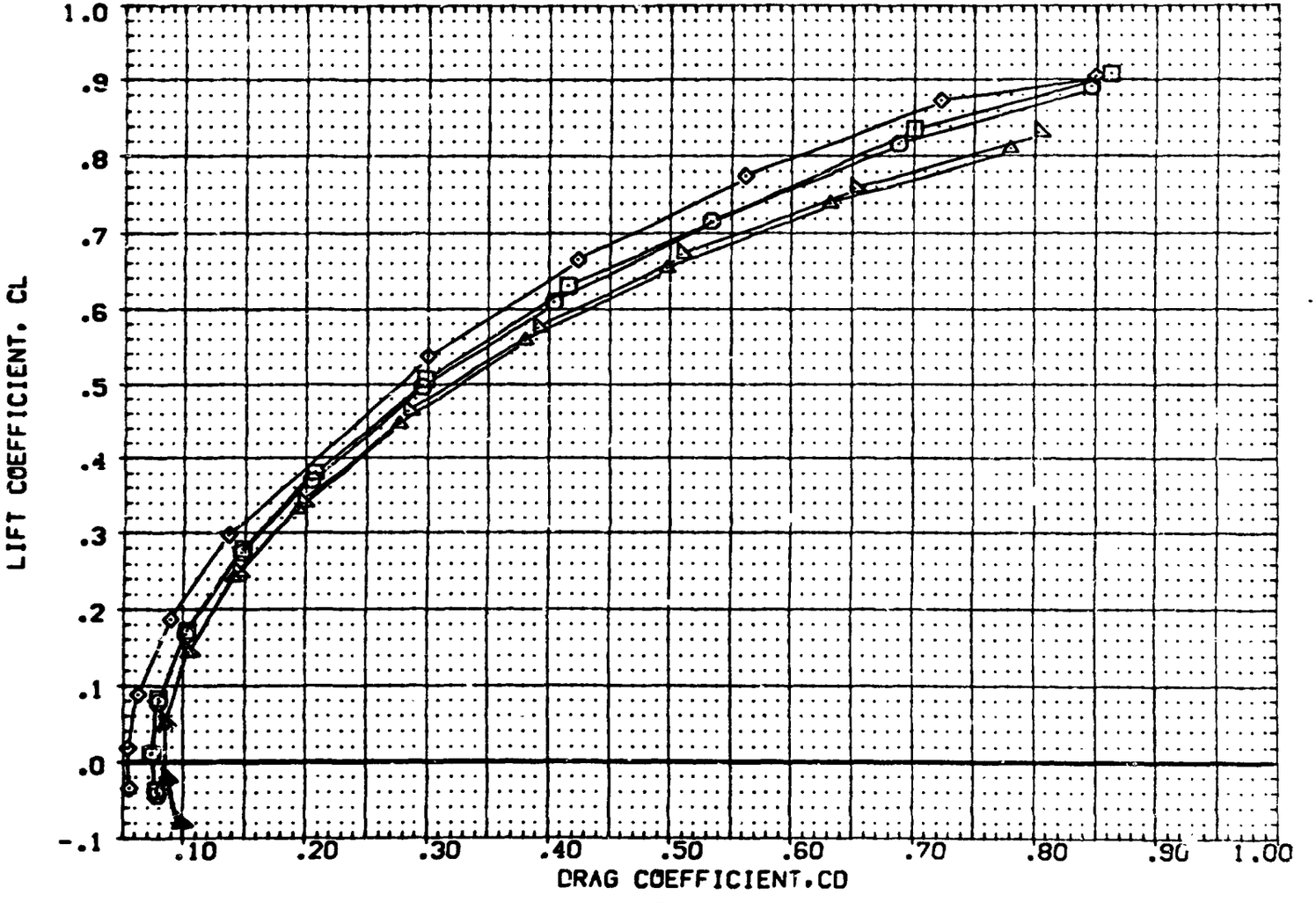


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	SDFLAP	SPOBRK	RUDDER
(CB6001)	□	AMES3.5-168 DA23 B22 C7 E23 F3 M4 R5 V7 V127	.000	-14.250	55.000	.000
(CB6007)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000
(CB6008)	◇	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(CB6003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000
(CB6006)	△	DATA NOT AVAILABLE	-40.000	.000	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

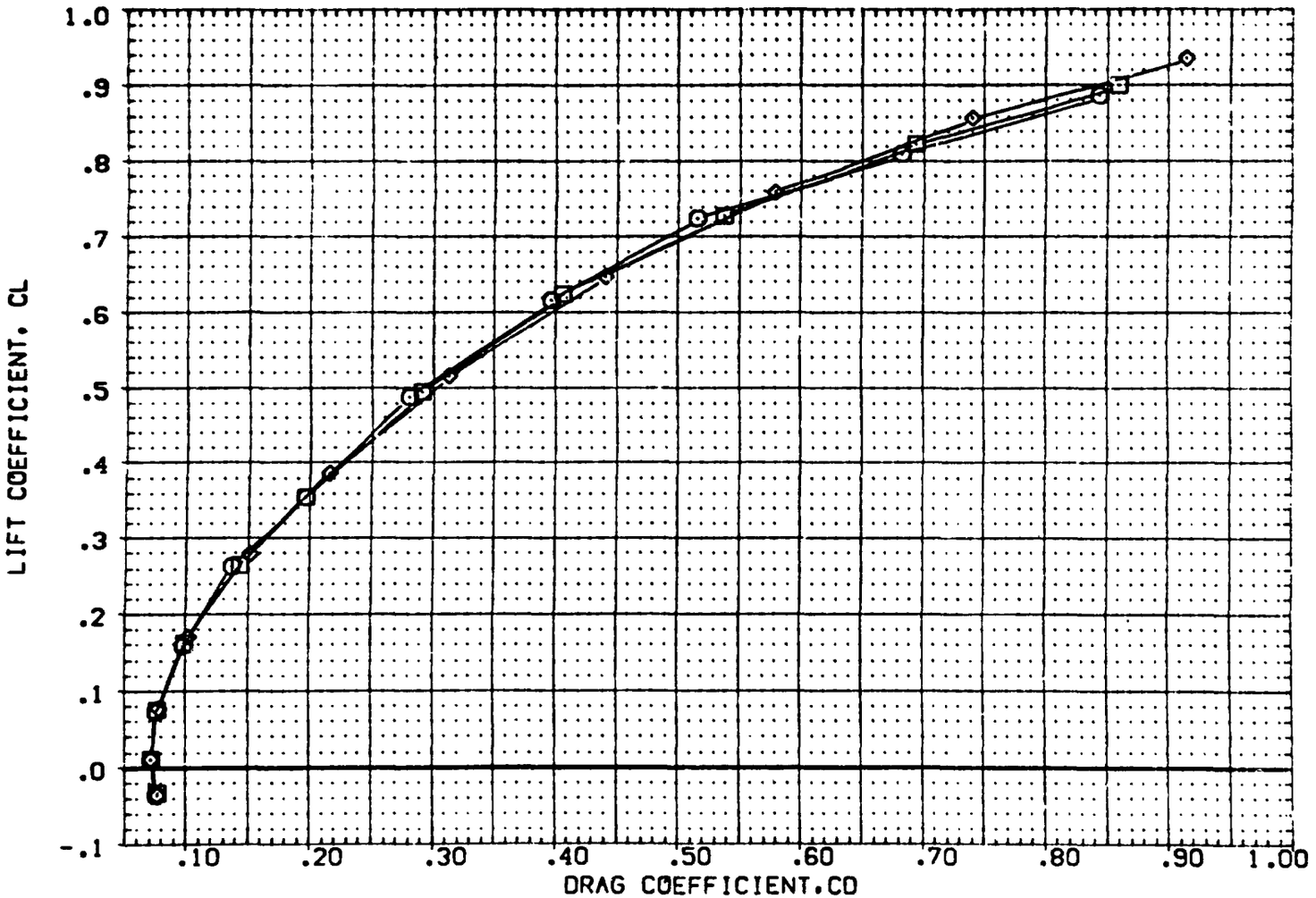


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(TB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(TB6008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(VB6003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

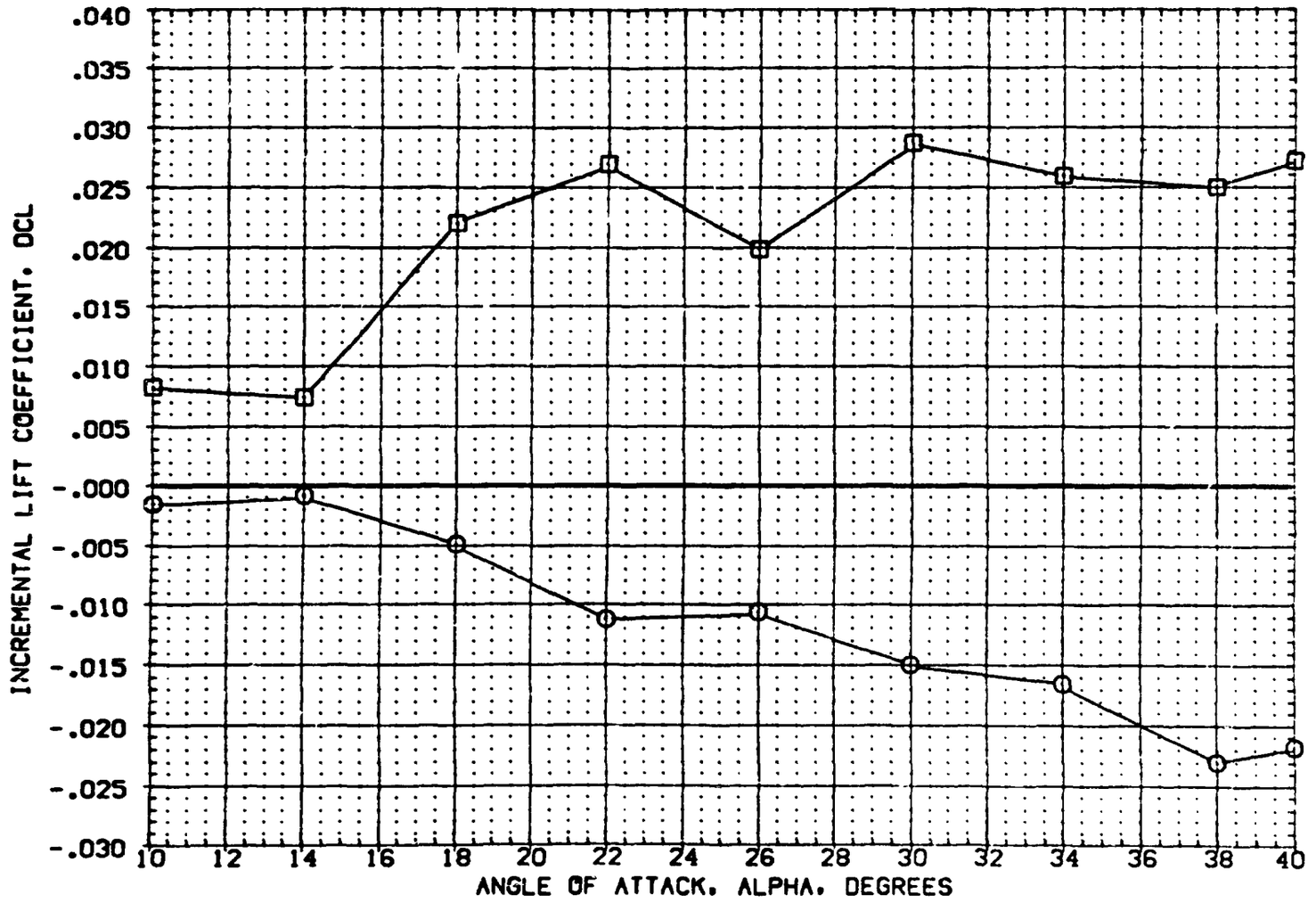


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(B6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(B6008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(V8603)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

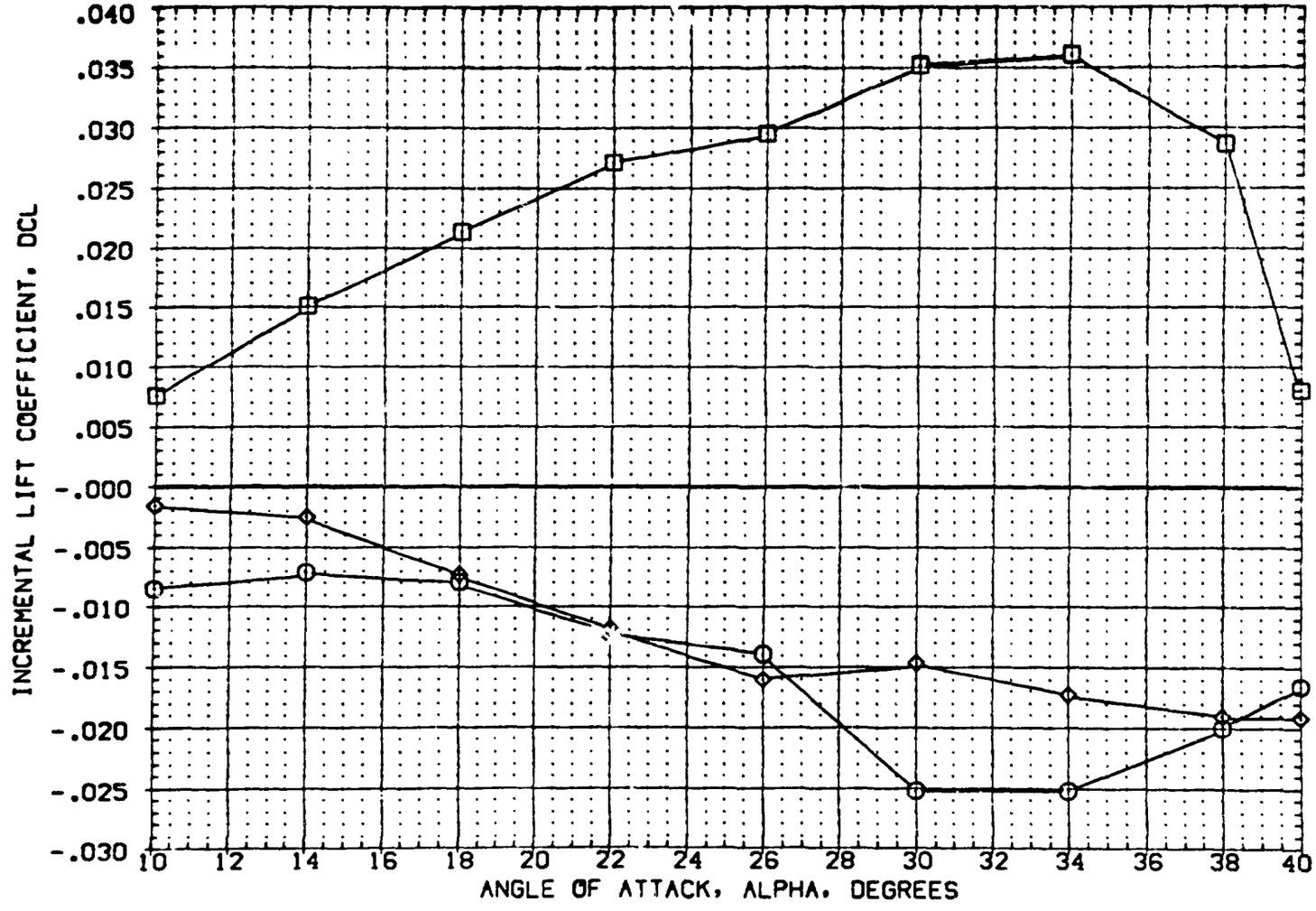


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(TB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(TB6008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(VB6003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

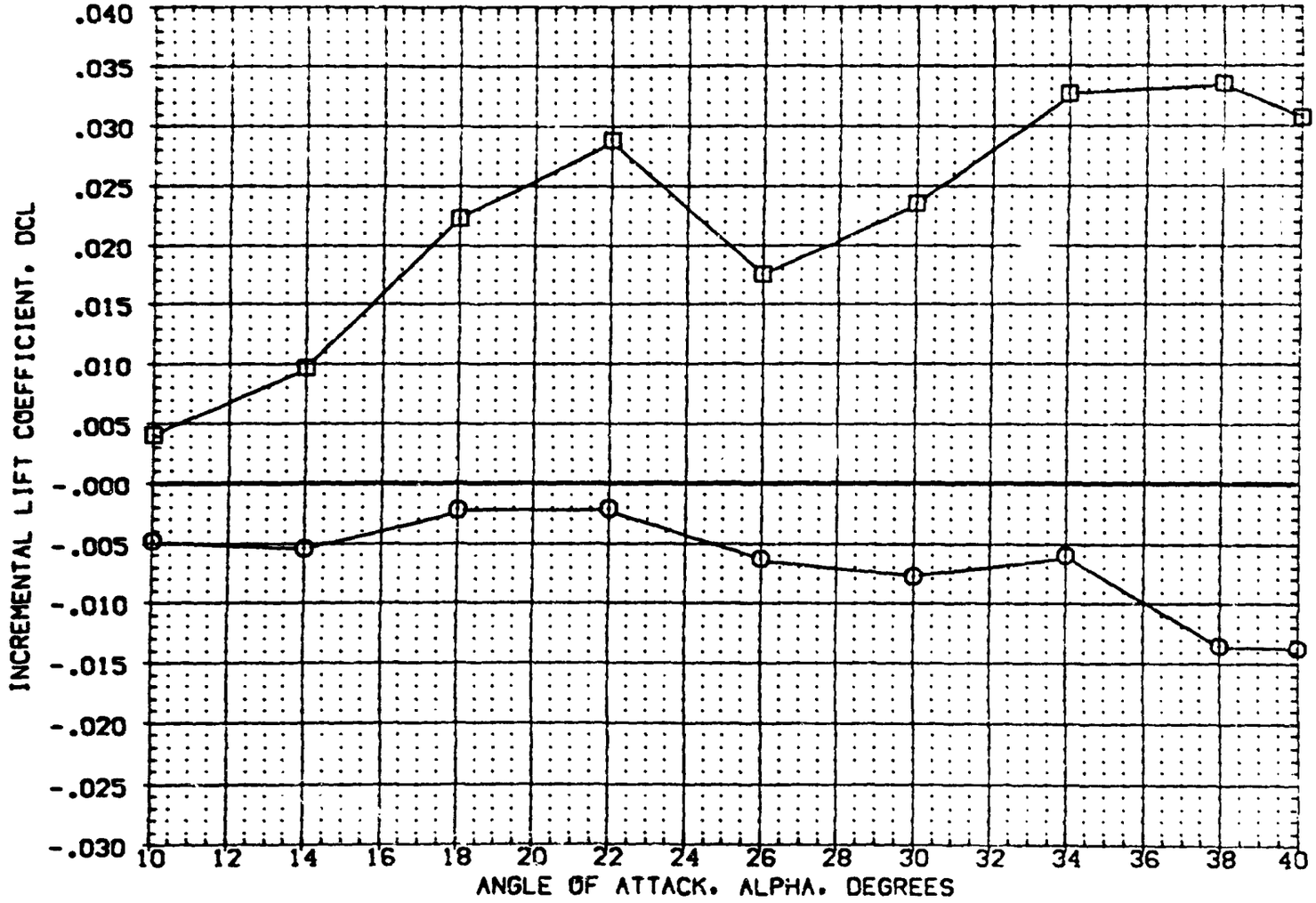


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TB6001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(TB6008)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(VB6003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

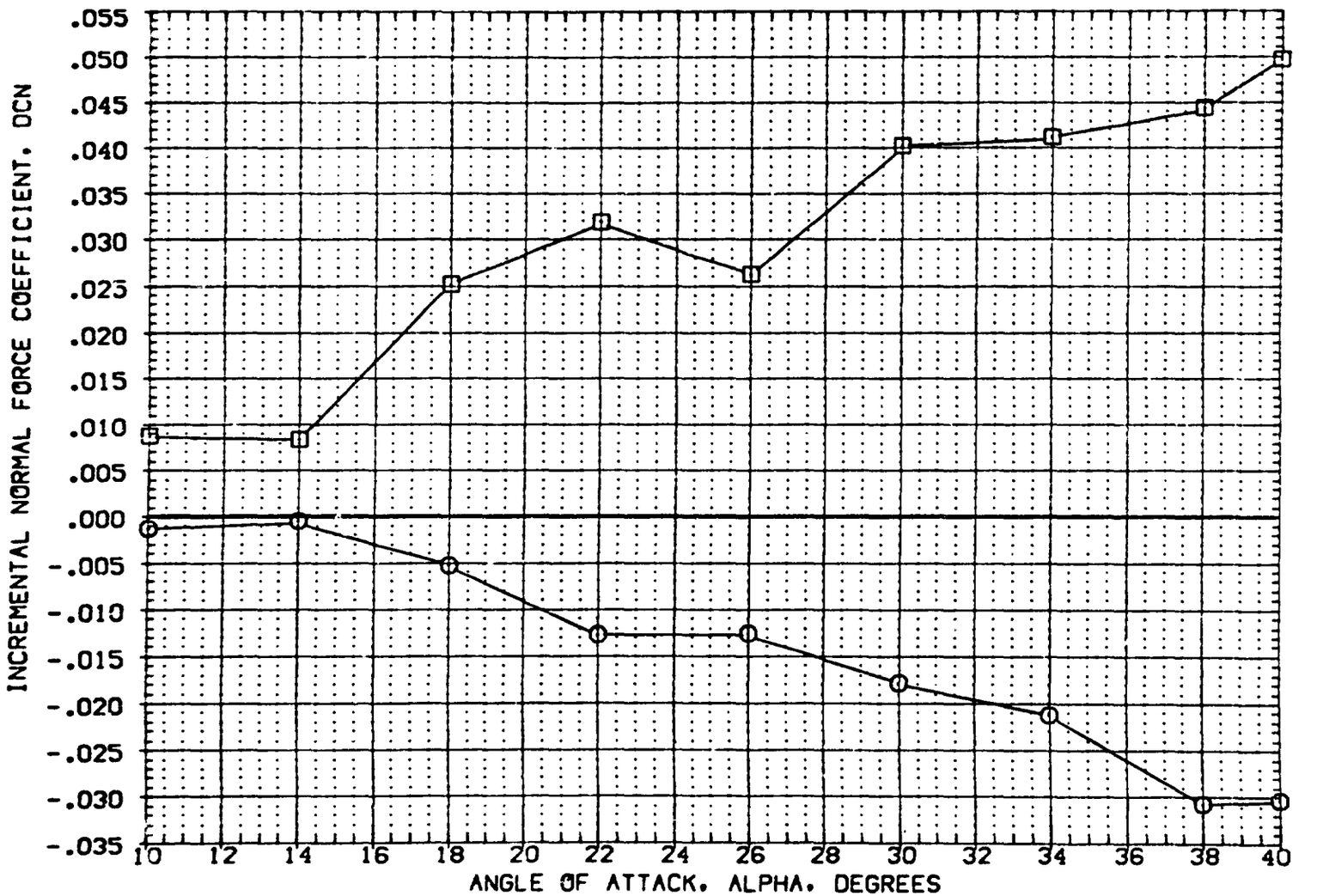


FIG. 5 BODY FLAP EFFECTS 1478 CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(T86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(T86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(V86003)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

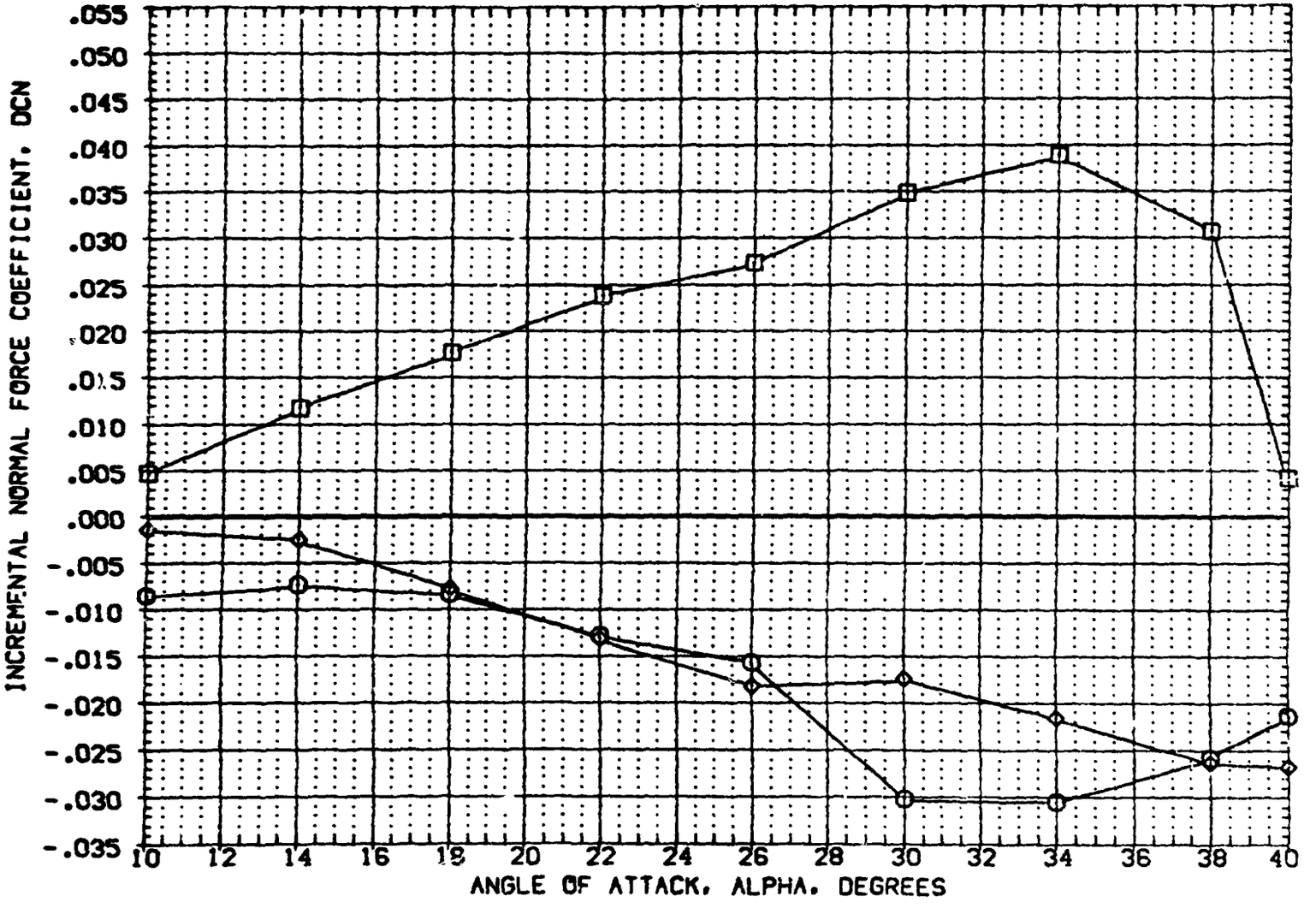


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(T86001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(T86008)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(V86003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.5800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

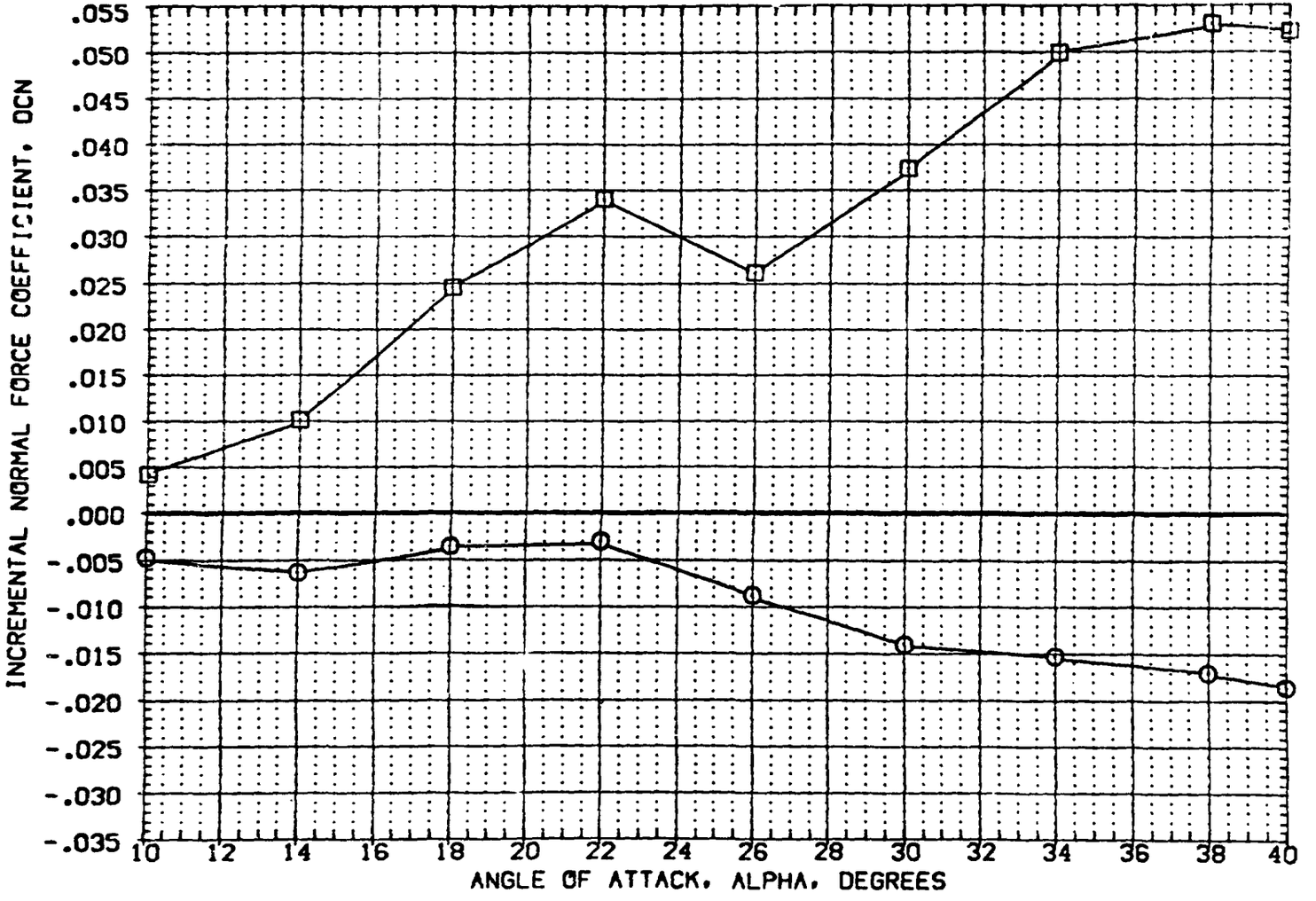


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(TB6001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(TB6008)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(VB6003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

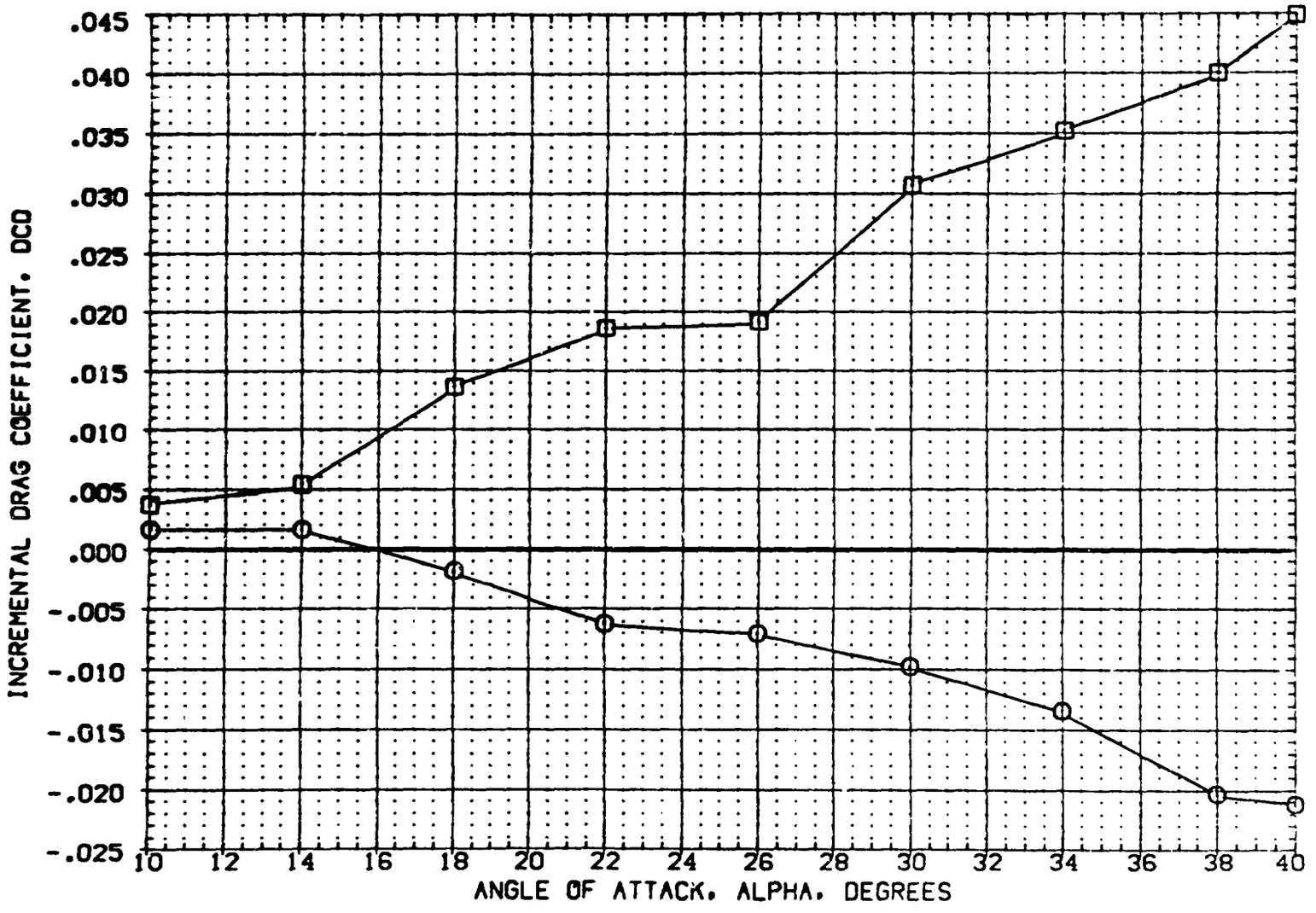


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(TB6001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(TB6008)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(VB6003)	◇	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

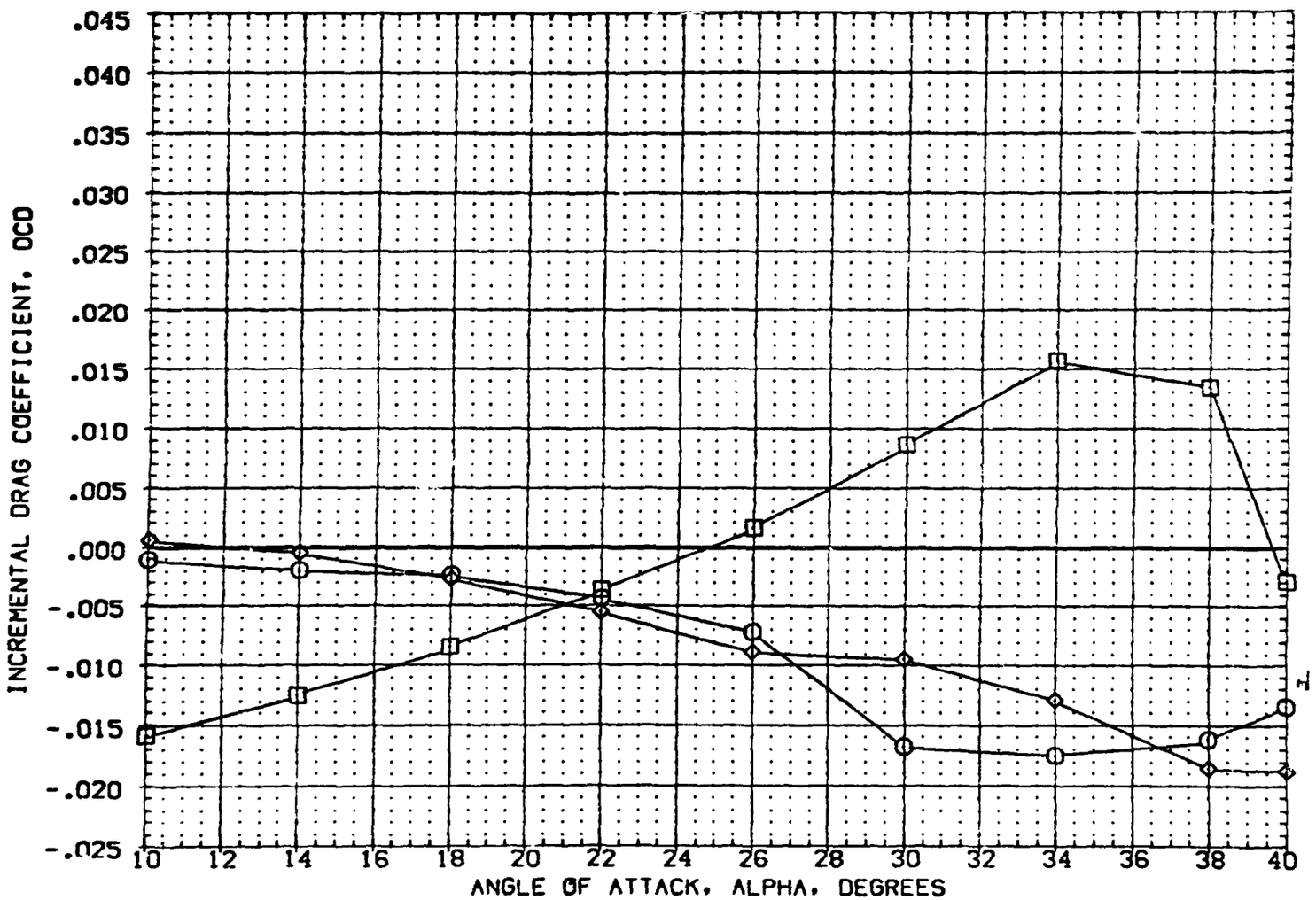


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(TB6008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(VB6003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4900	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

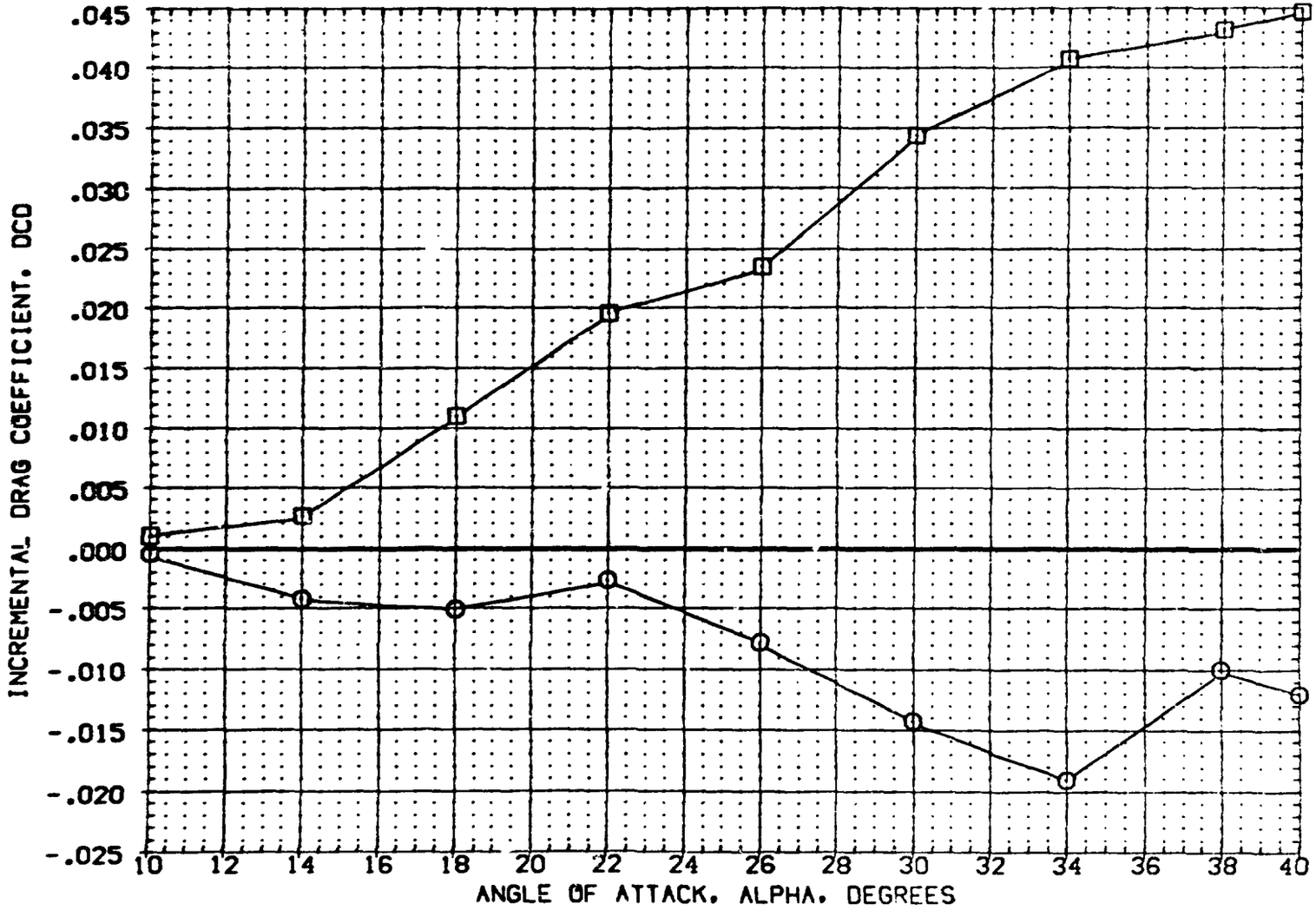


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ELEVON	OBF	SPOBRK	RUDDER
(T86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(T86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(V86003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

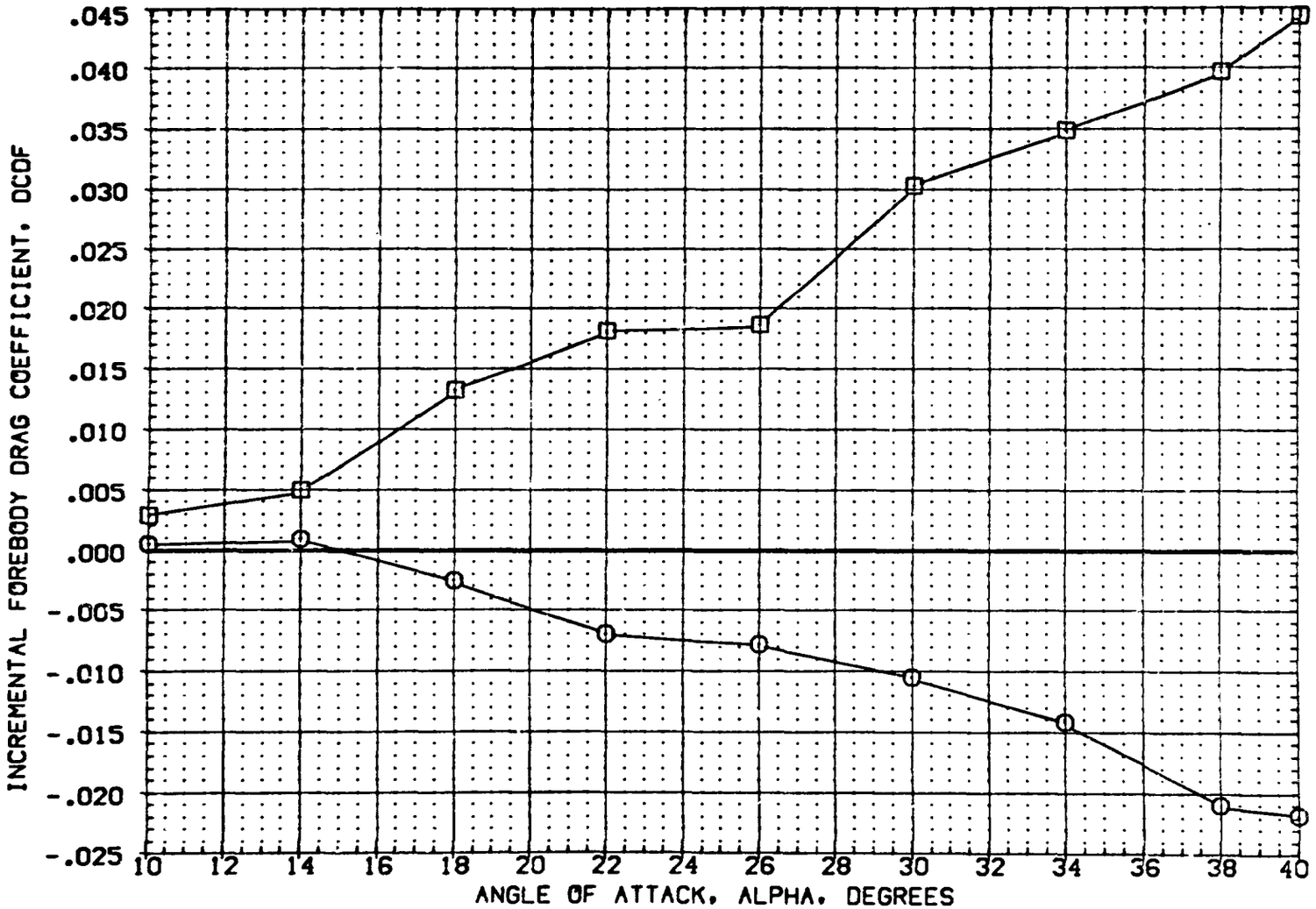


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(T86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(T86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(V86003)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

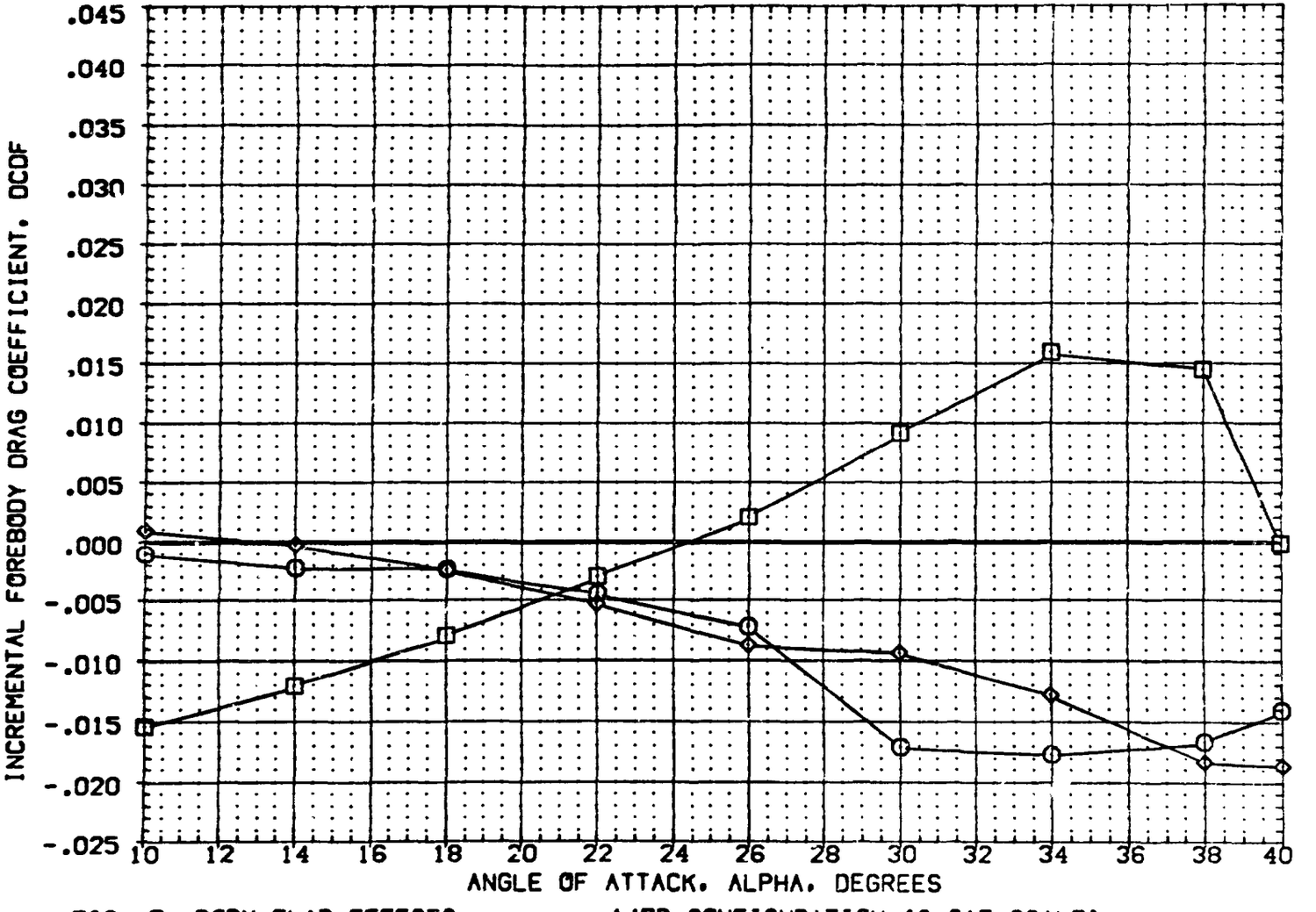


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(T86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(T86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(V86003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2590.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

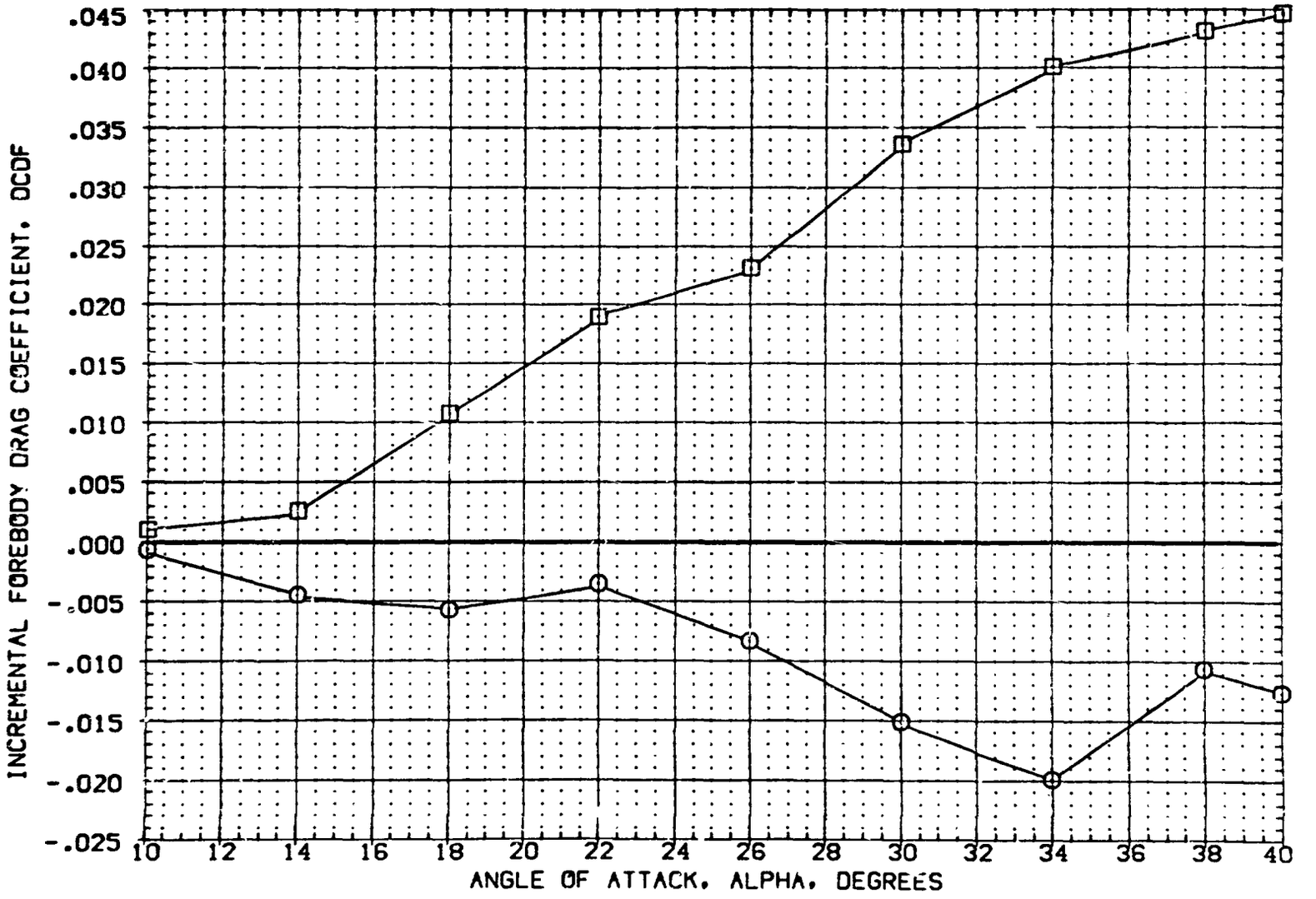


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(T86001)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(T86008)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(V86003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

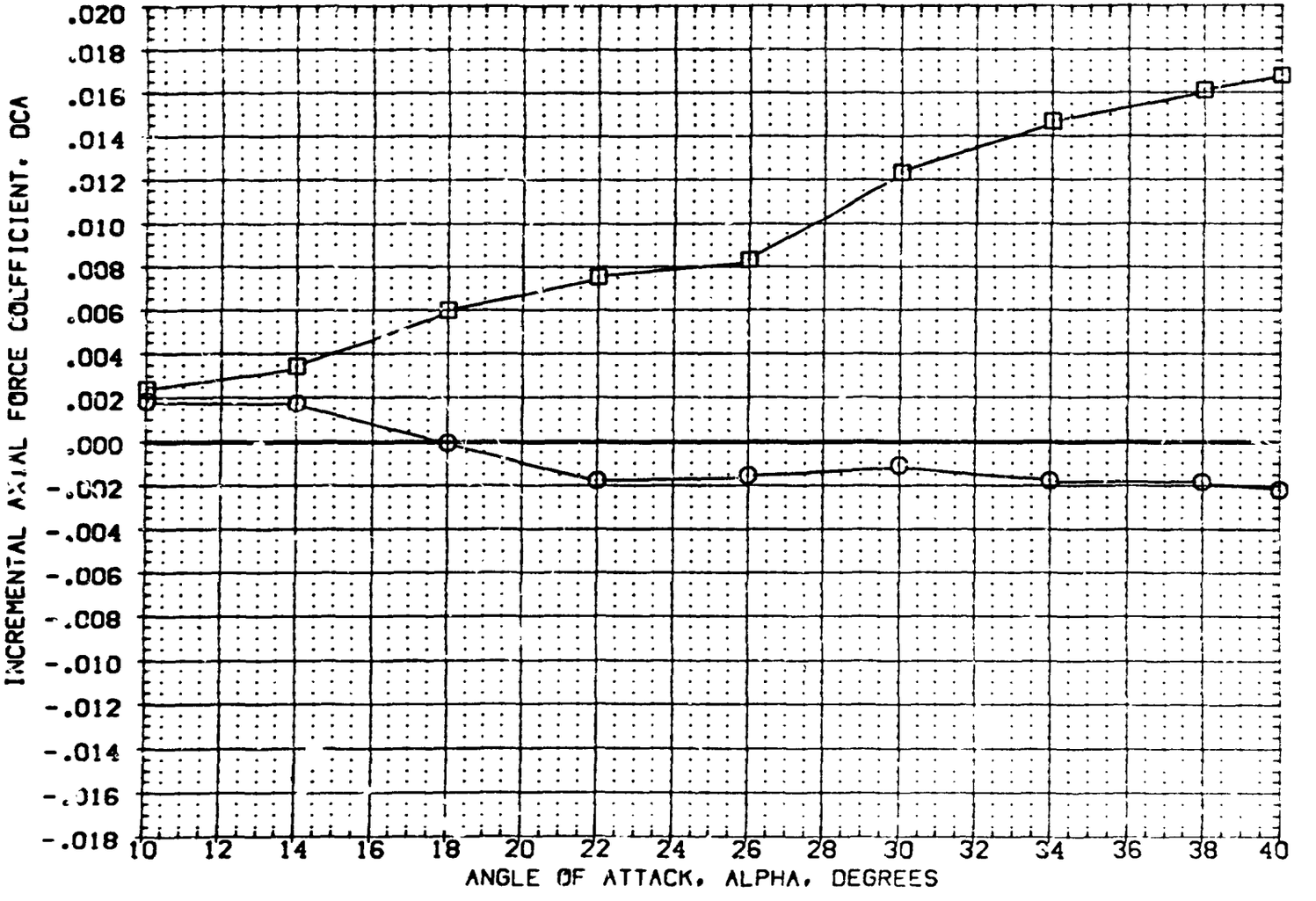


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(T86001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(T86008)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(V86003)	◇	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

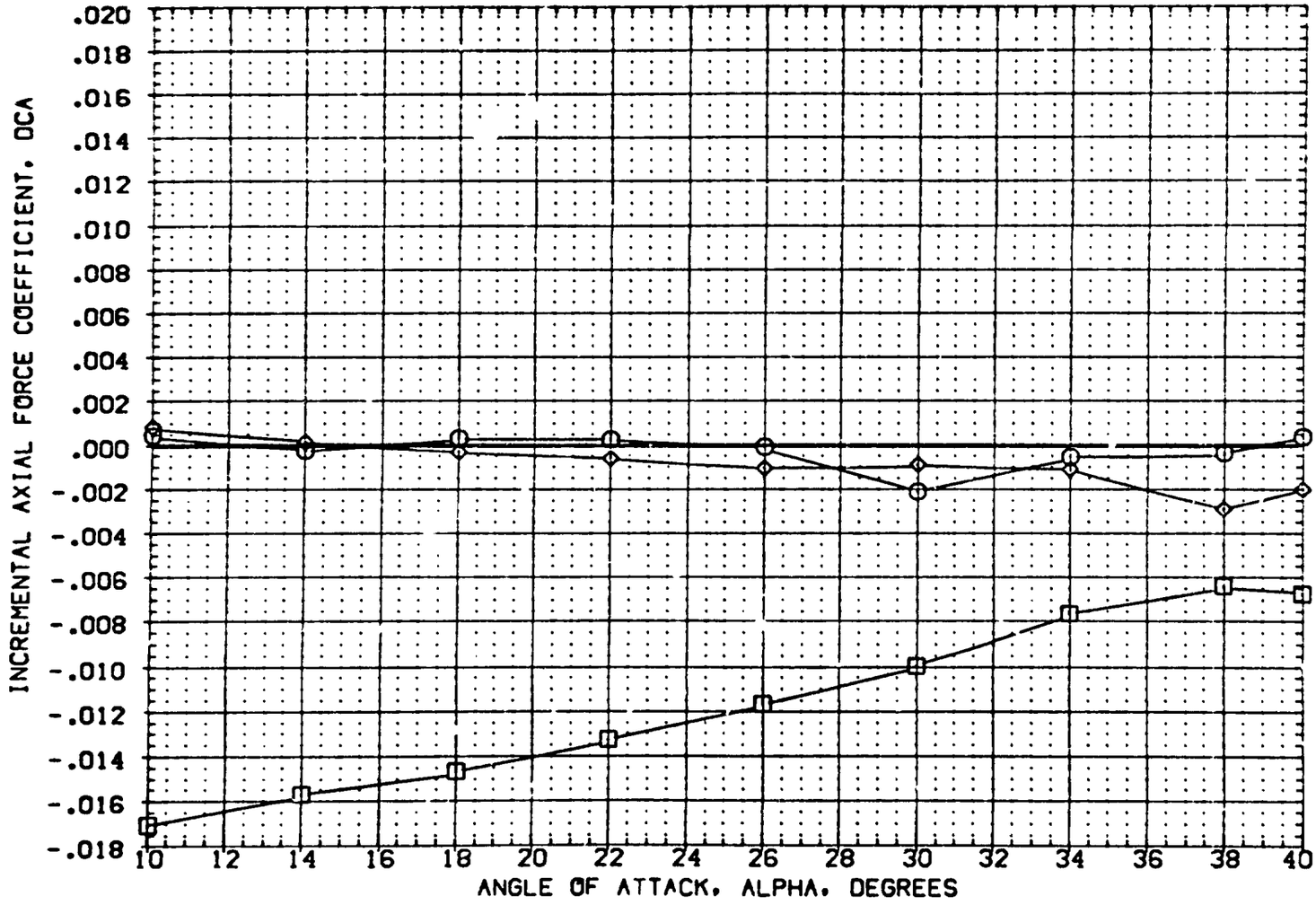


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(TB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(TB6008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(VB6003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1075.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

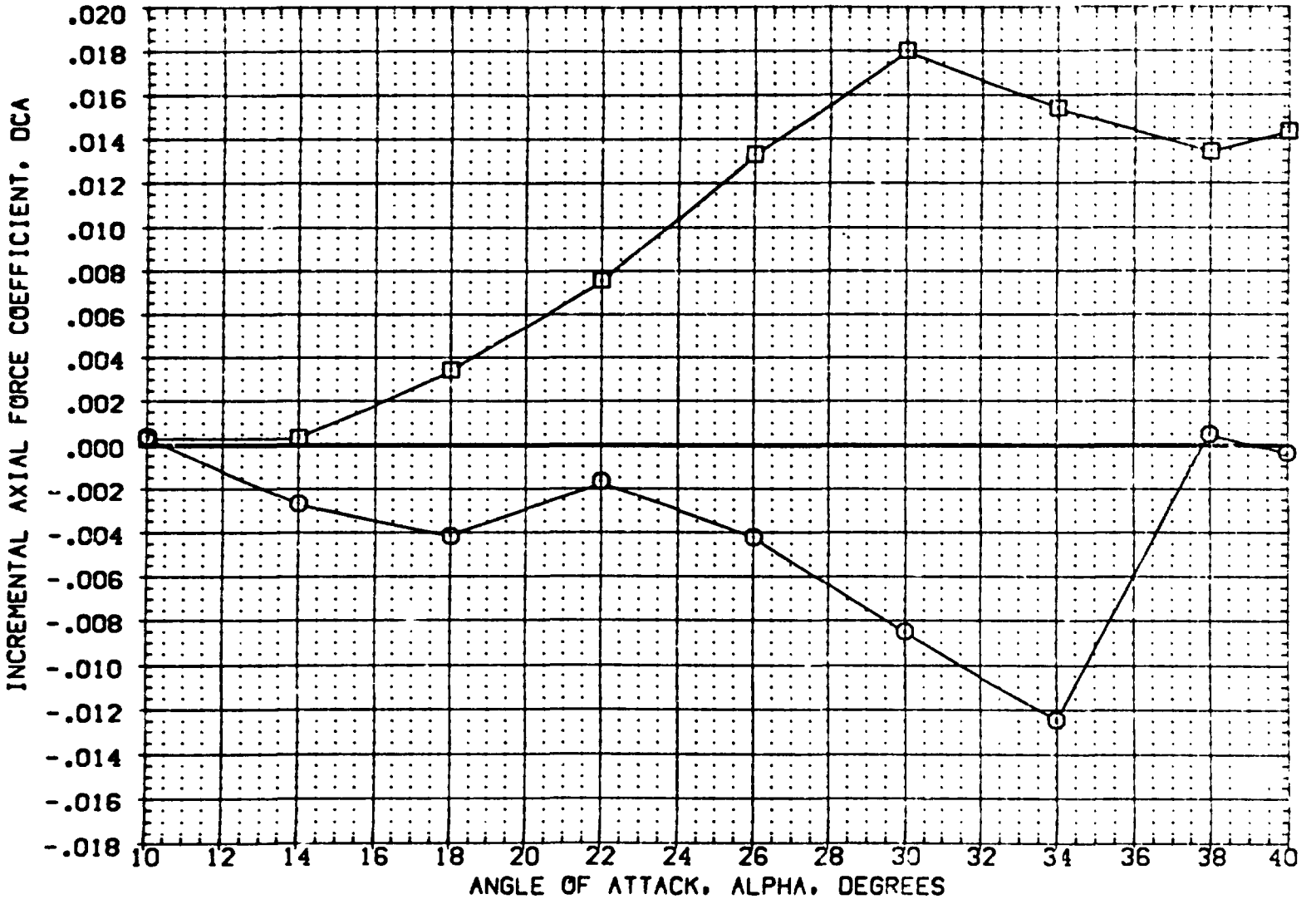


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOILR	RUDDER
(TB6001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(TB6008)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(VB6003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

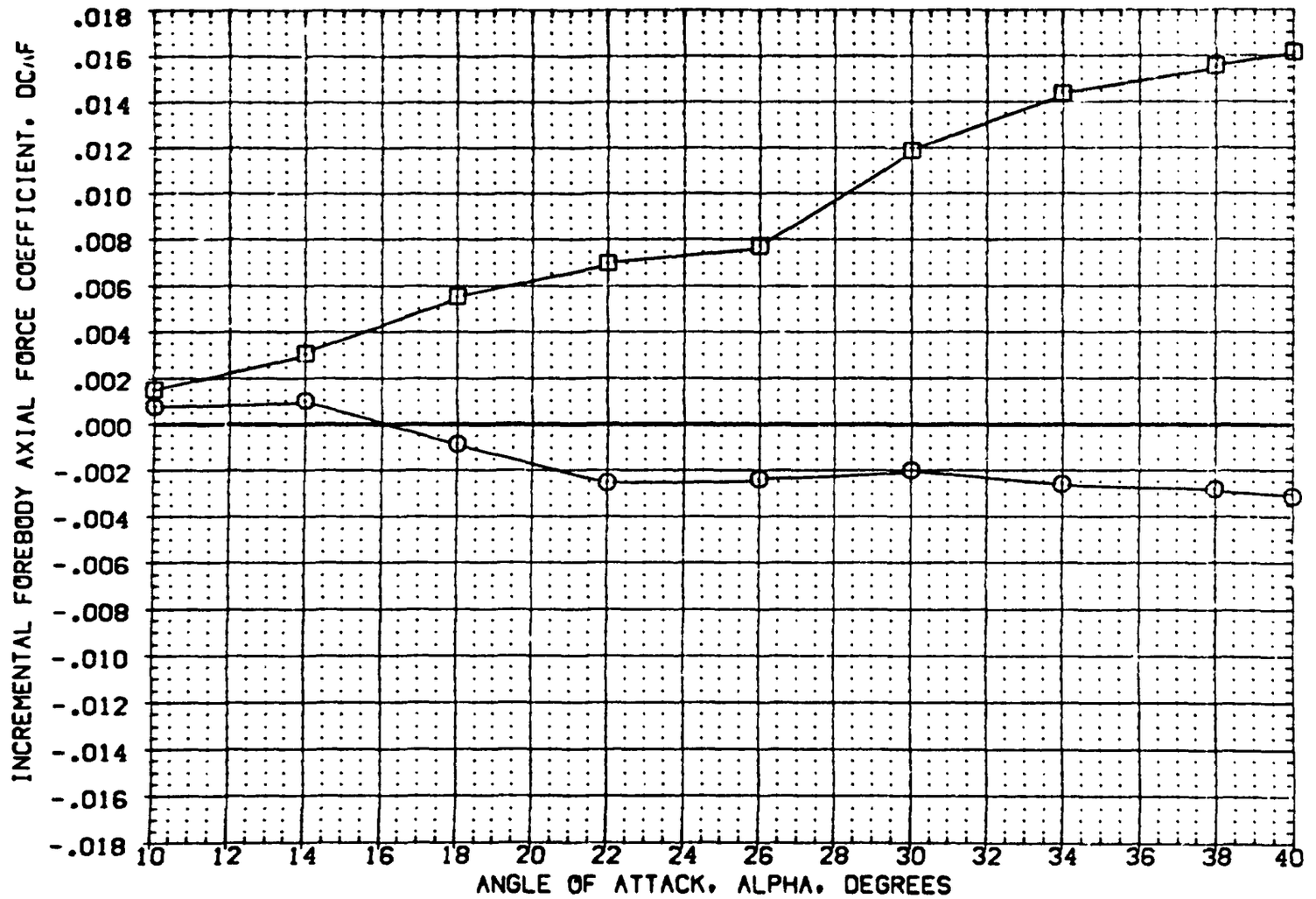


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(TB6008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(V86003)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

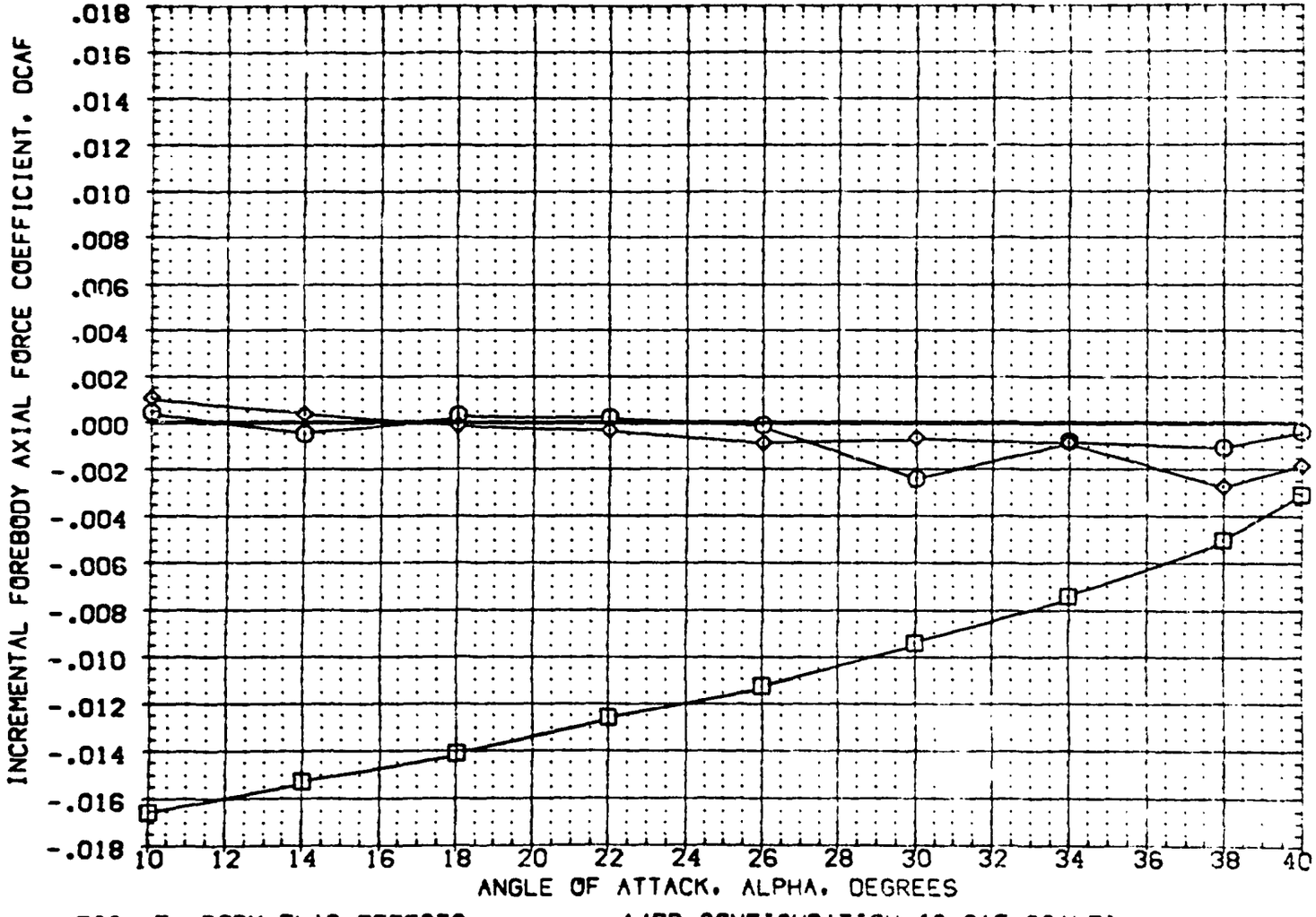


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(T86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(T86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(V86003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

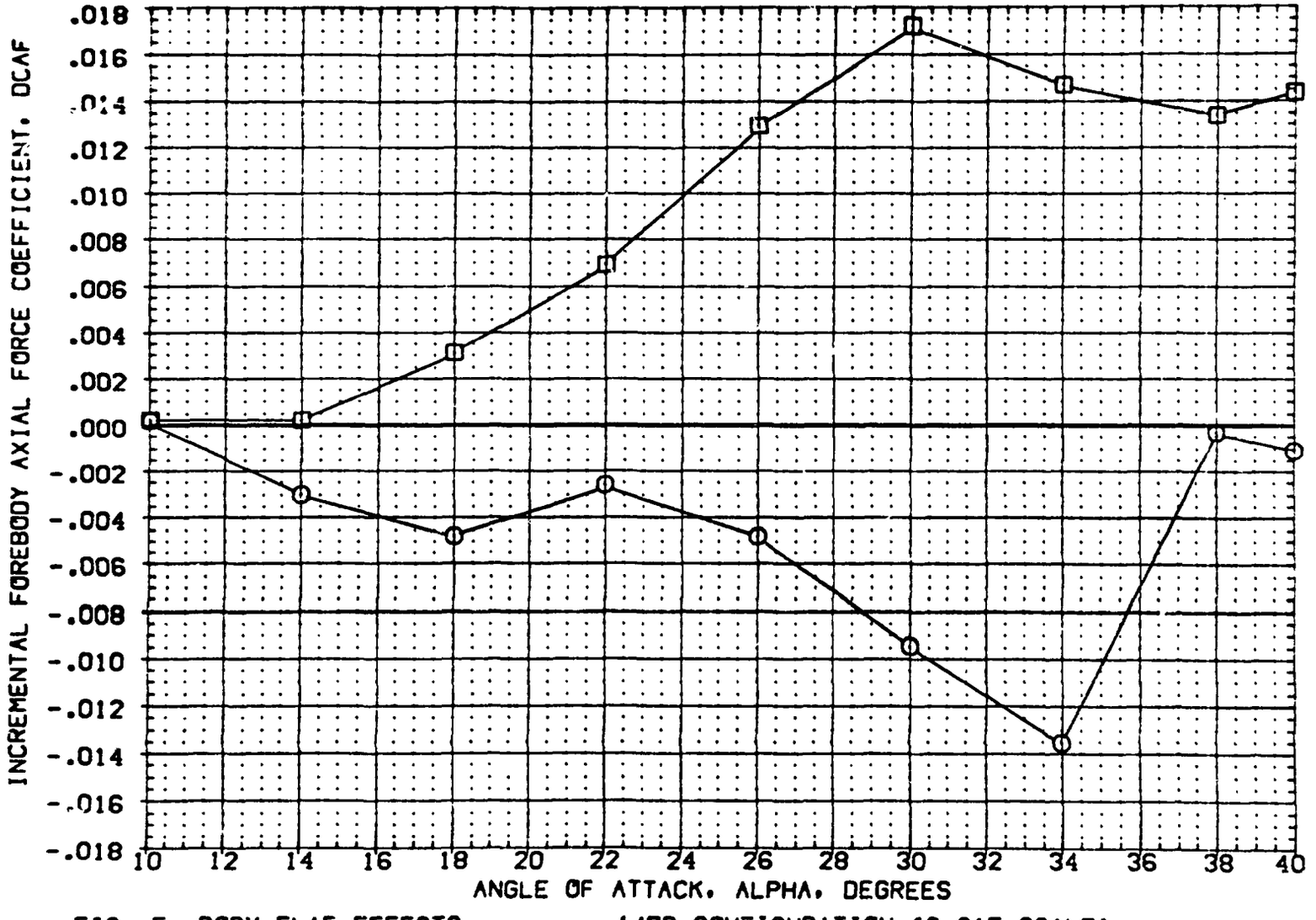


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(T86001) ○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(T86008) □	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(V86003) ◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6200	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

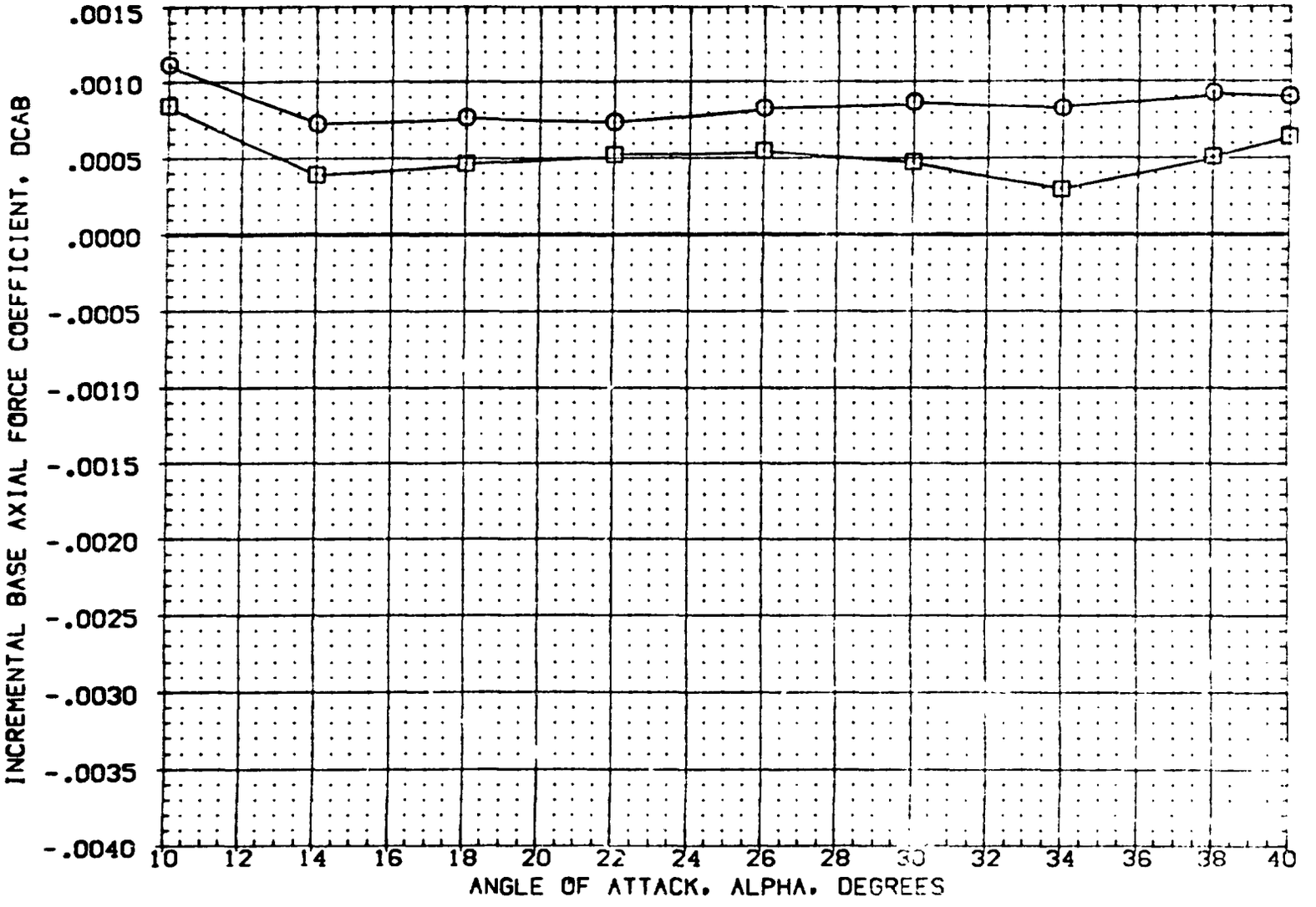


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(TB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(TB6008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
(VB6003)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

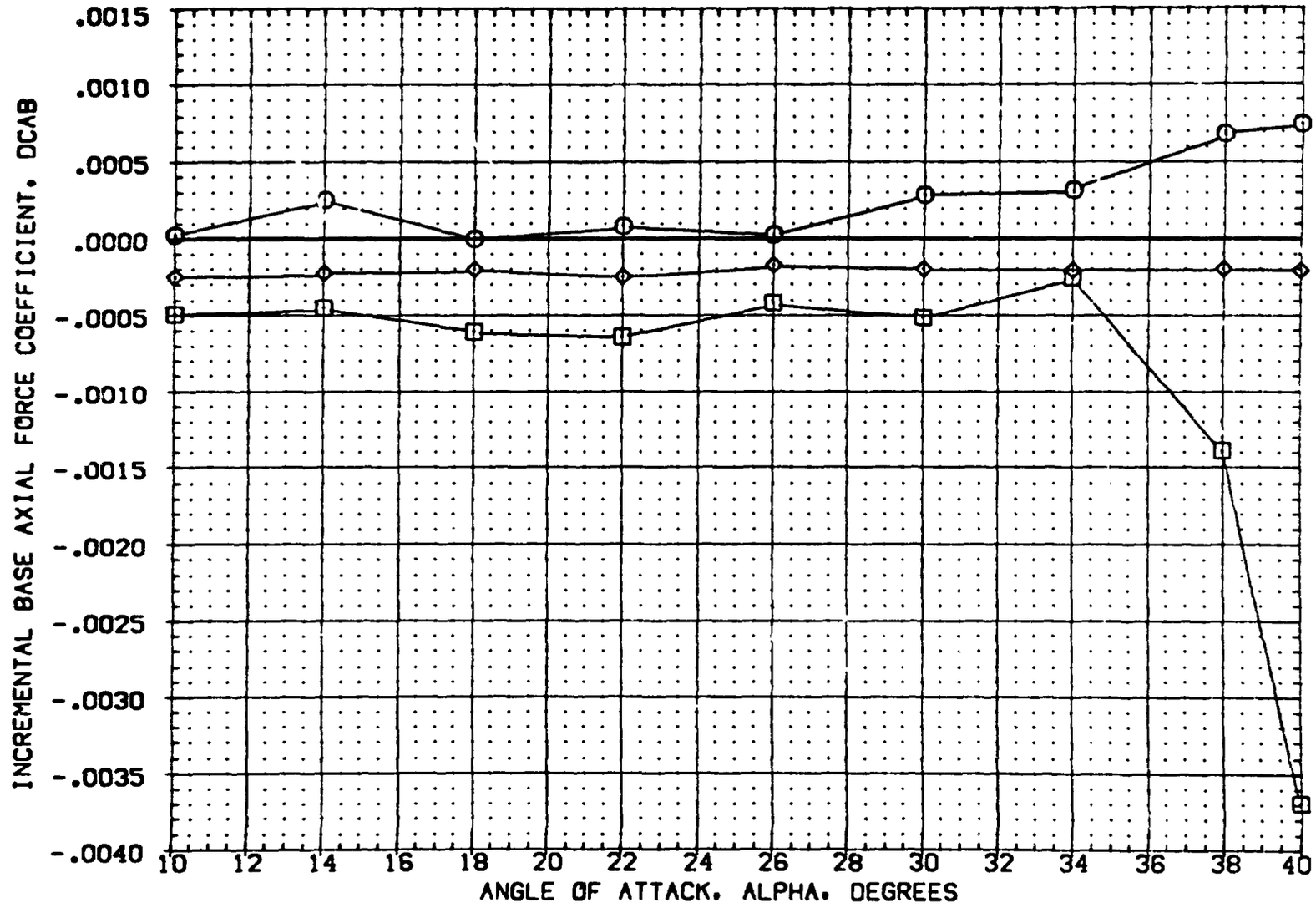


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
[T86001]	○	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
[T86008]	□	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000
[V86003]	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

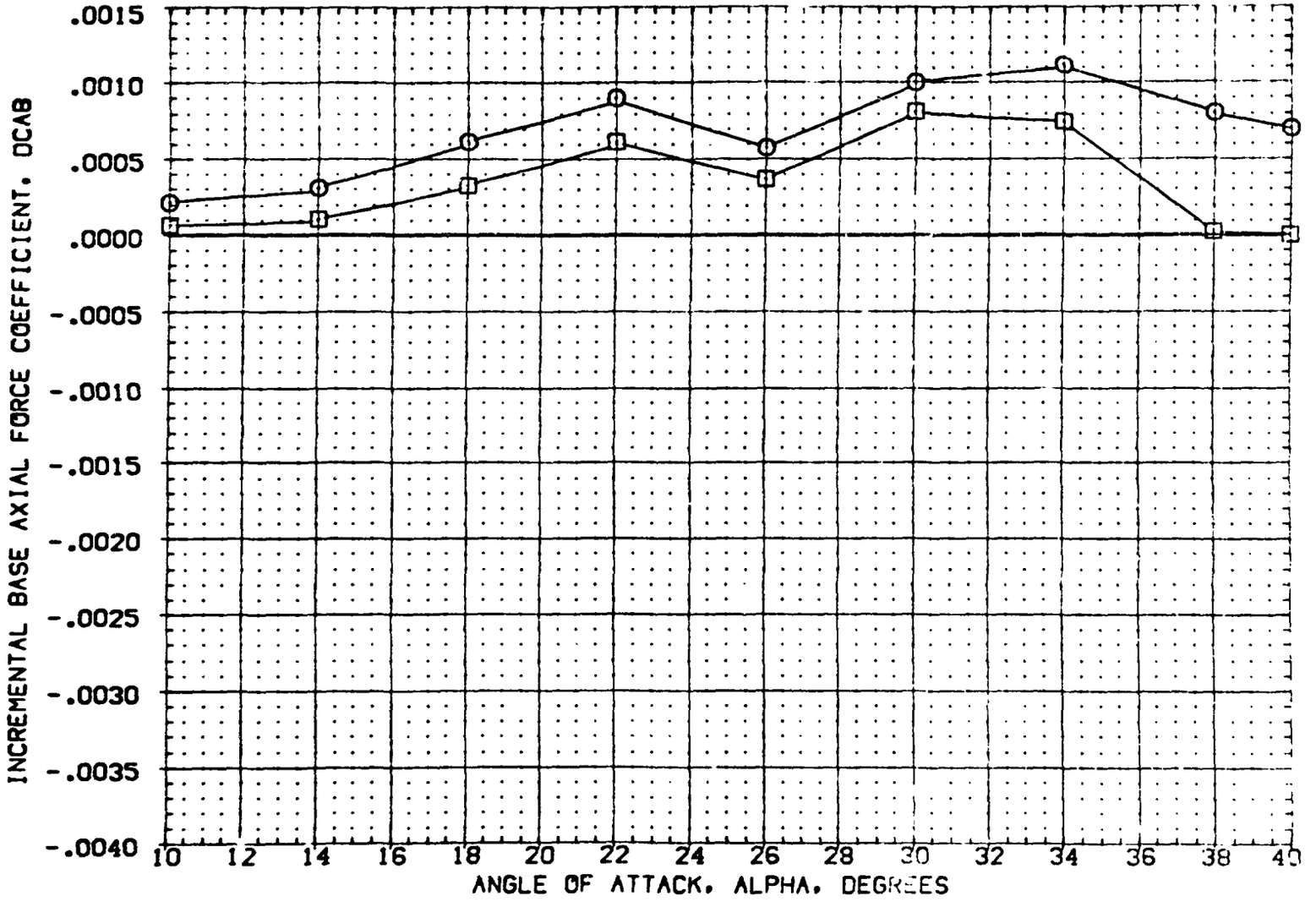


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(T86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(T86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(V86003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

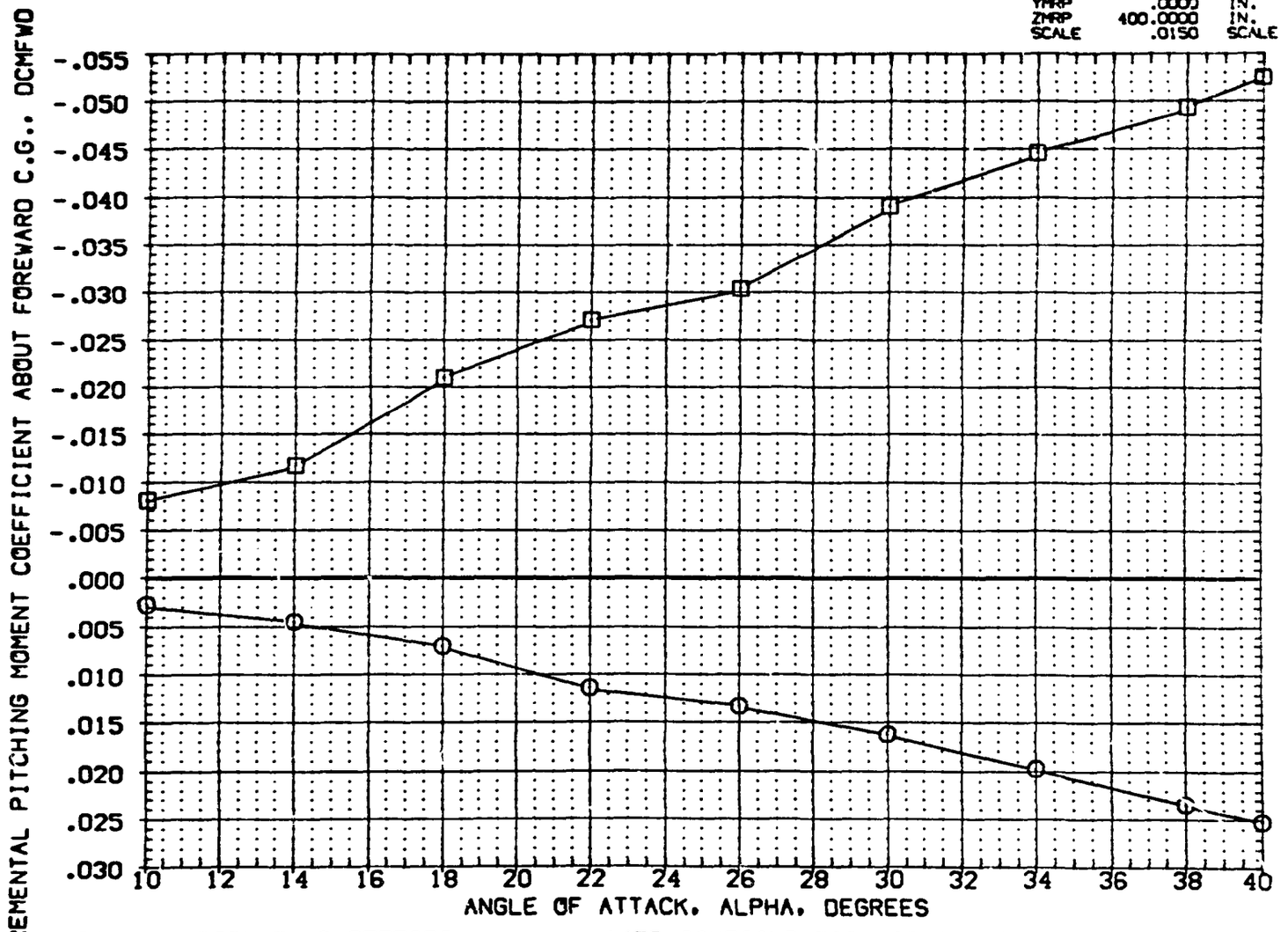


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(TB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(TB6008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(VB6003)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	736.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

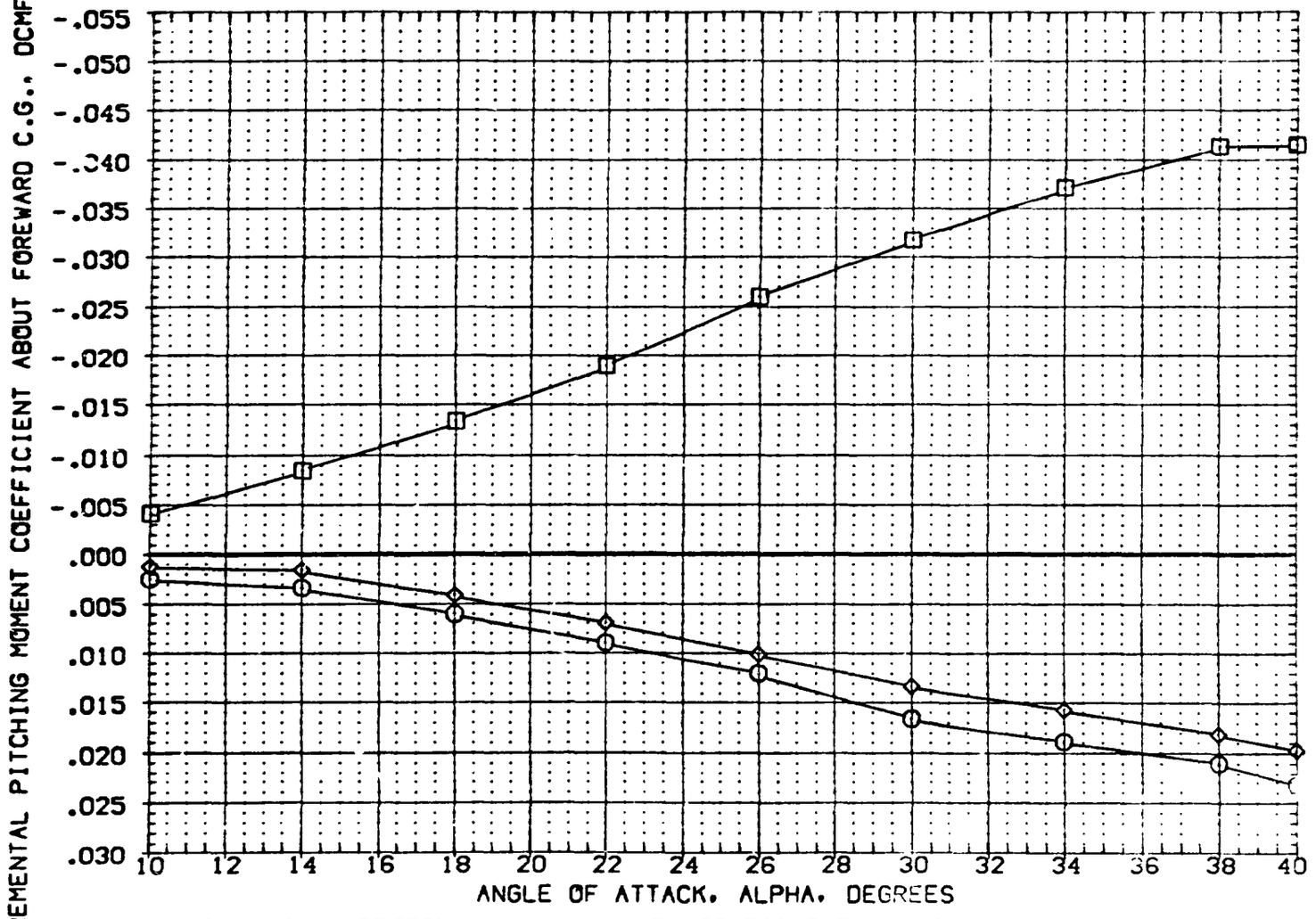


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	OBF	SPDBRK	RUDDER
(T86001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(T86008)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-13.750	55.000	.000
(V86003)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.1800	IN.
YMRP	.0000	IN.
ZMRP	405.0000	IN.
SCALE	.0150	SCALE

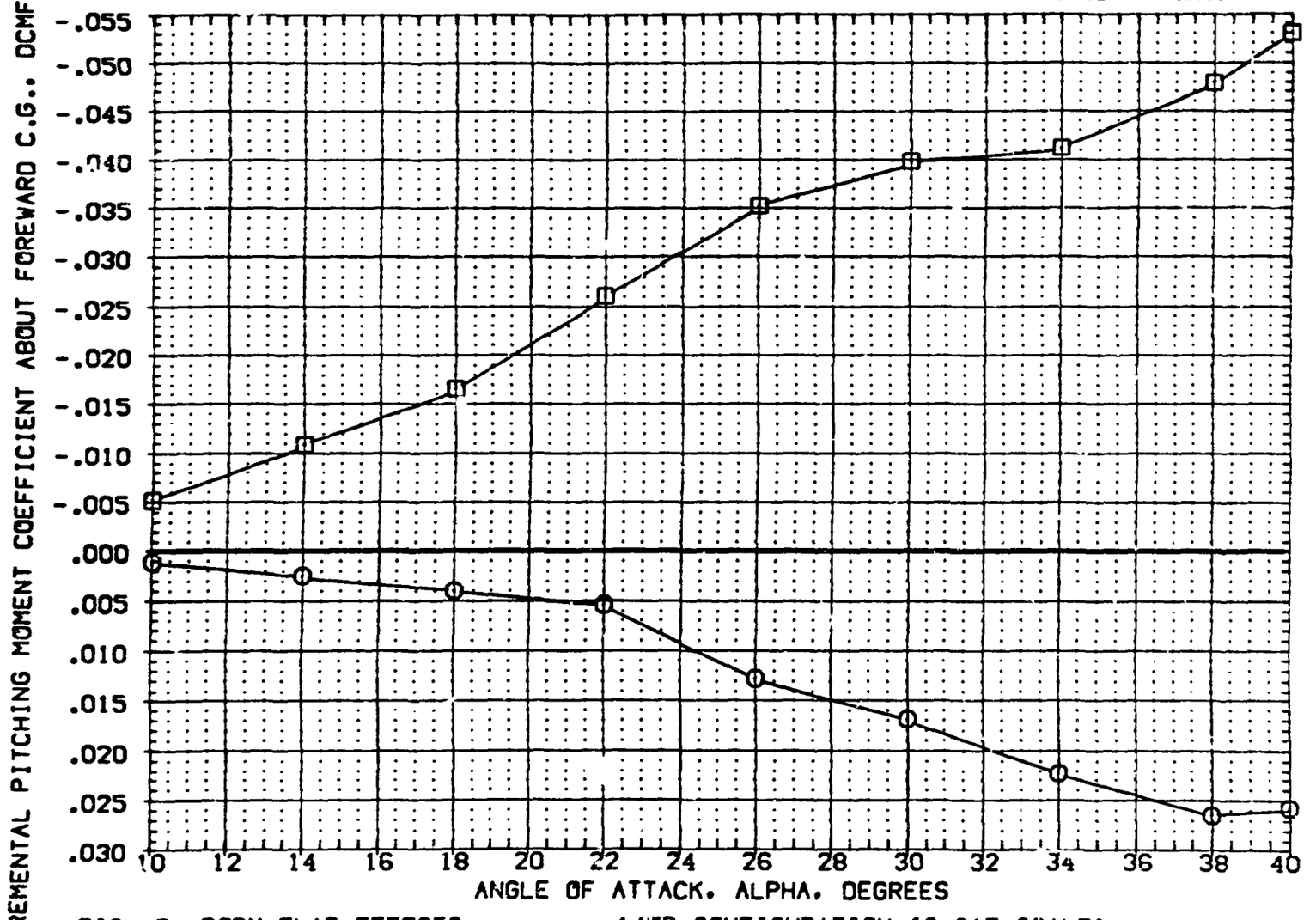


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

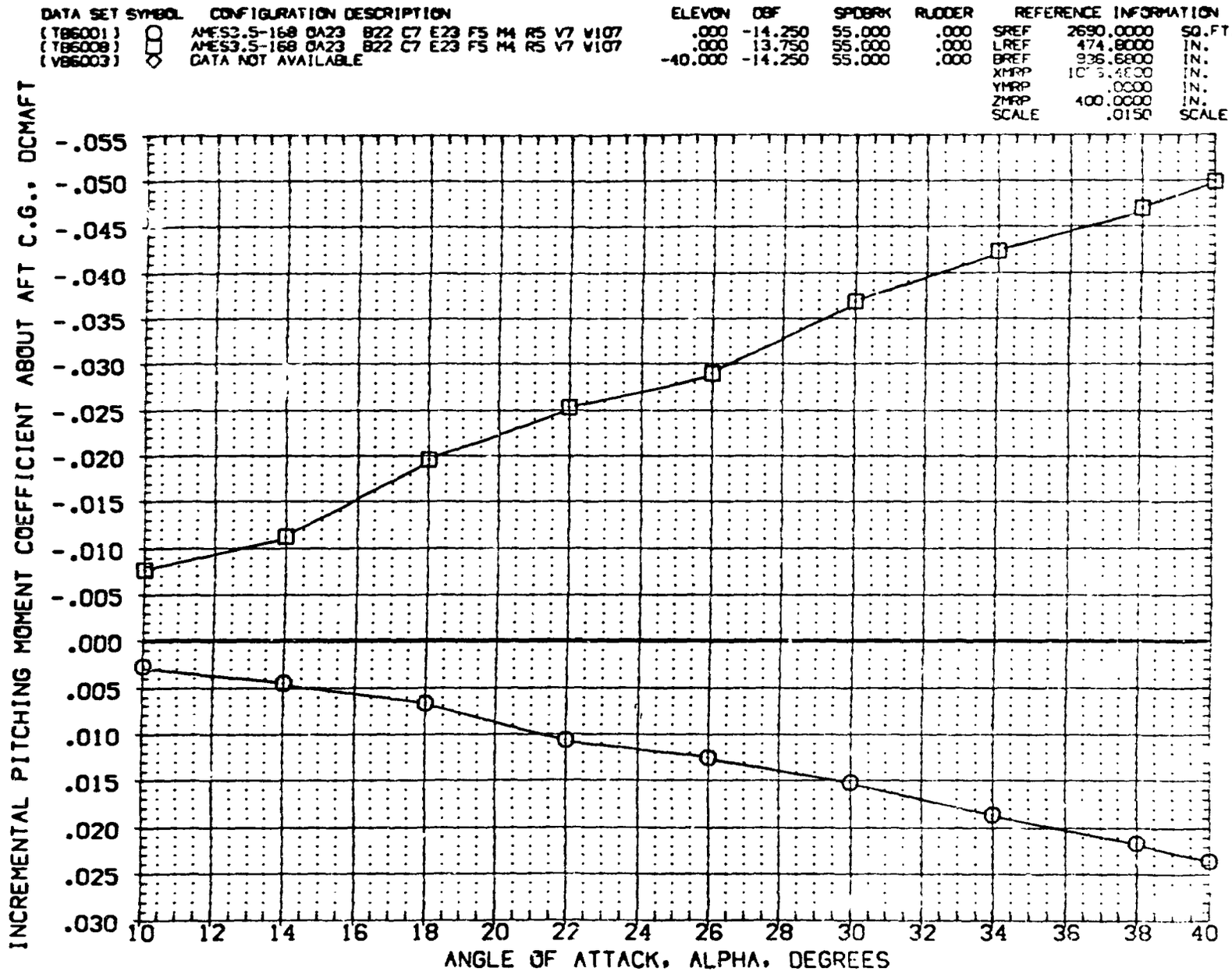


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

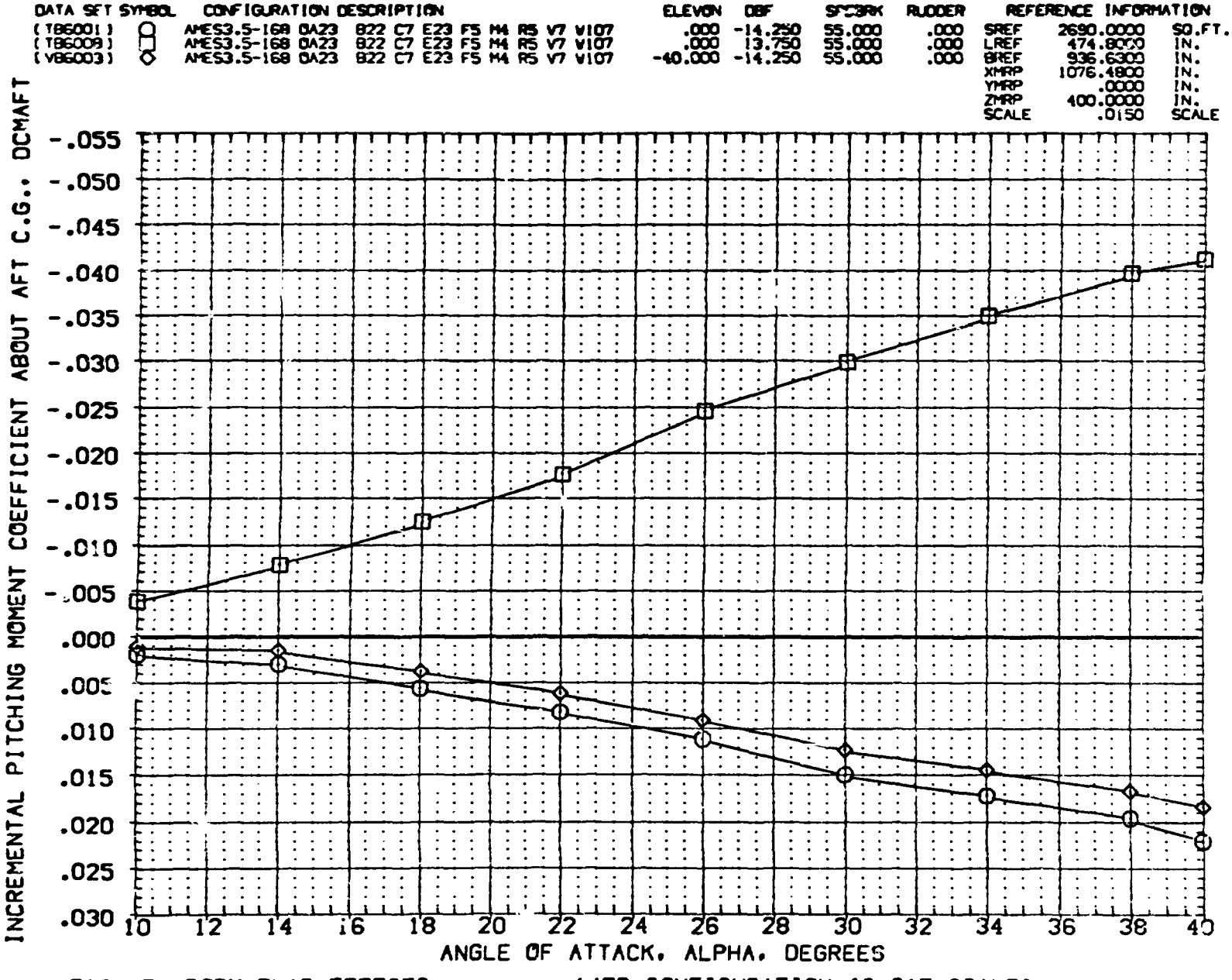


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(T8600)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(T8600B)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000
(V8600)	◇	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

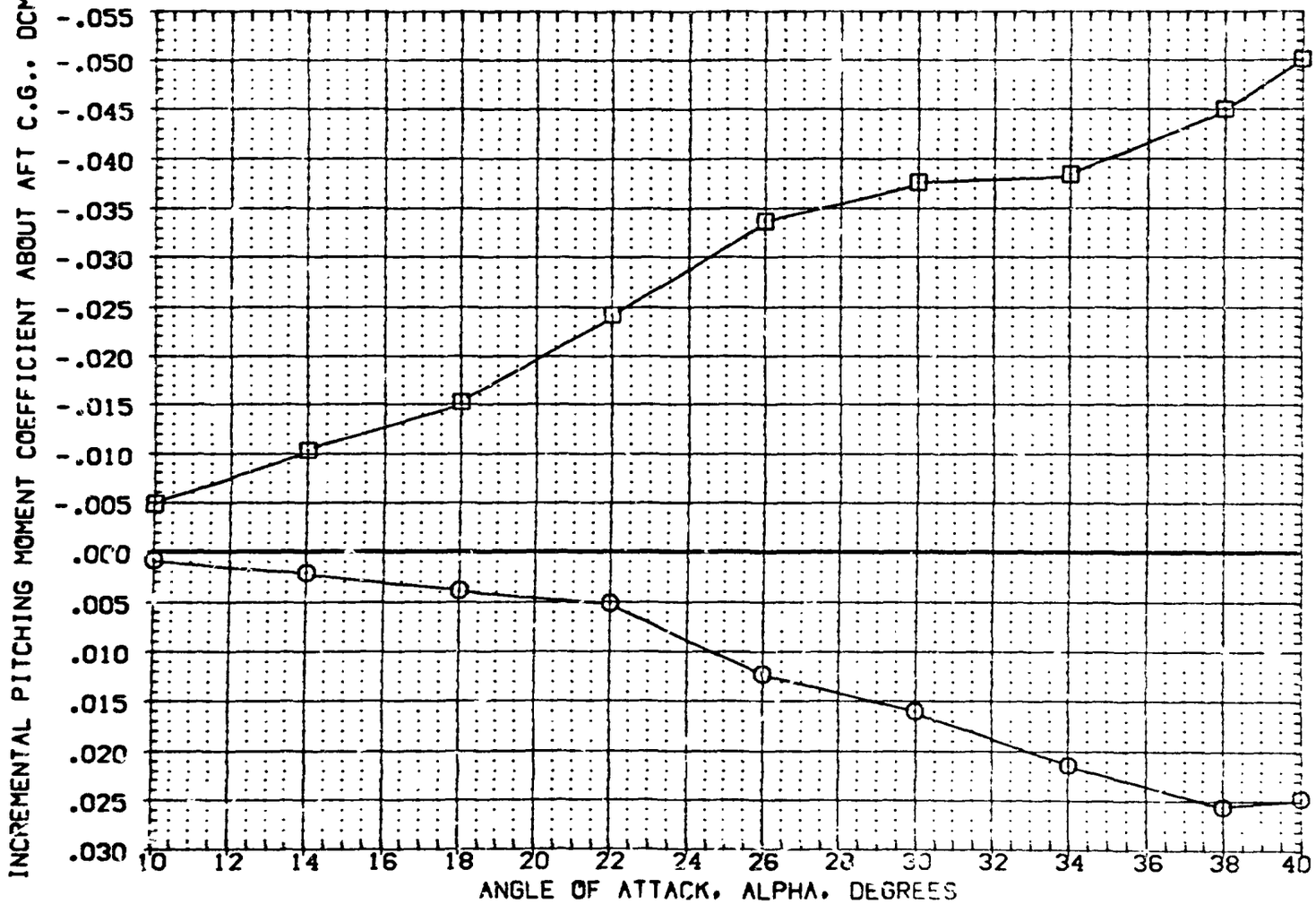


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86031)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R8 V7 W107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R8 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

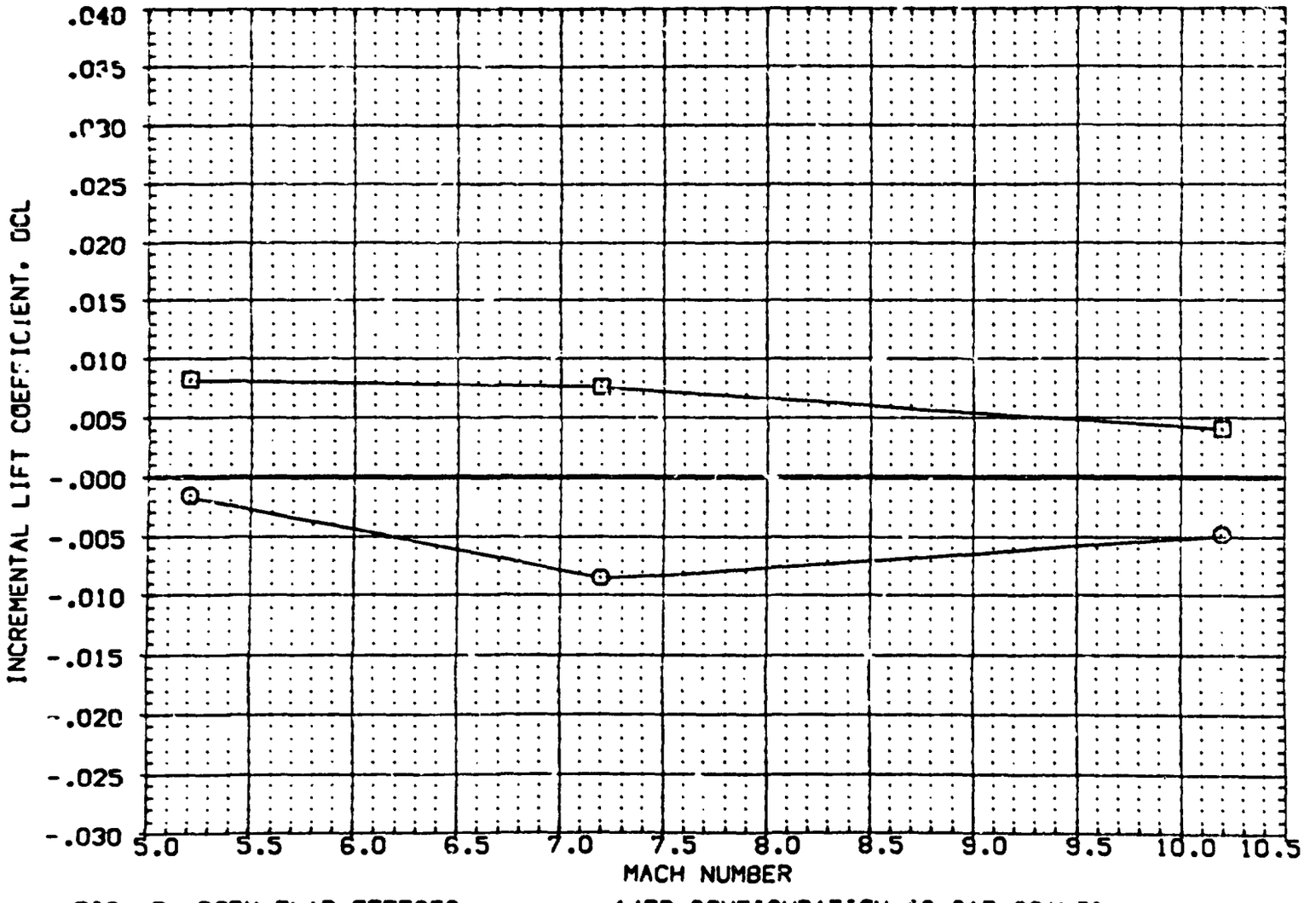


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U8600;1)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U8600B)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

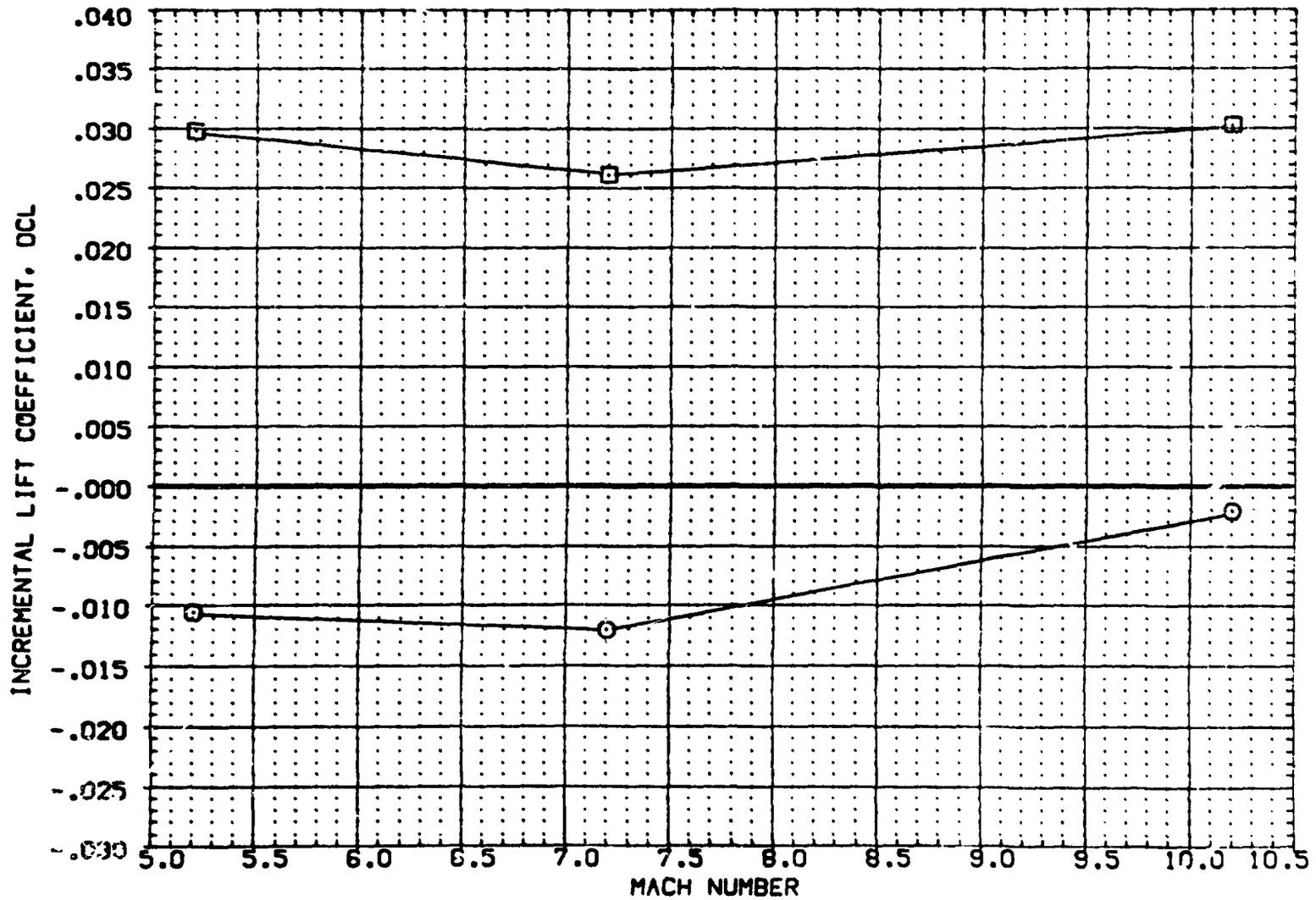


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOIRK	RUDDER
(U86001)	○	AMES3.5-168 BA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 BA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

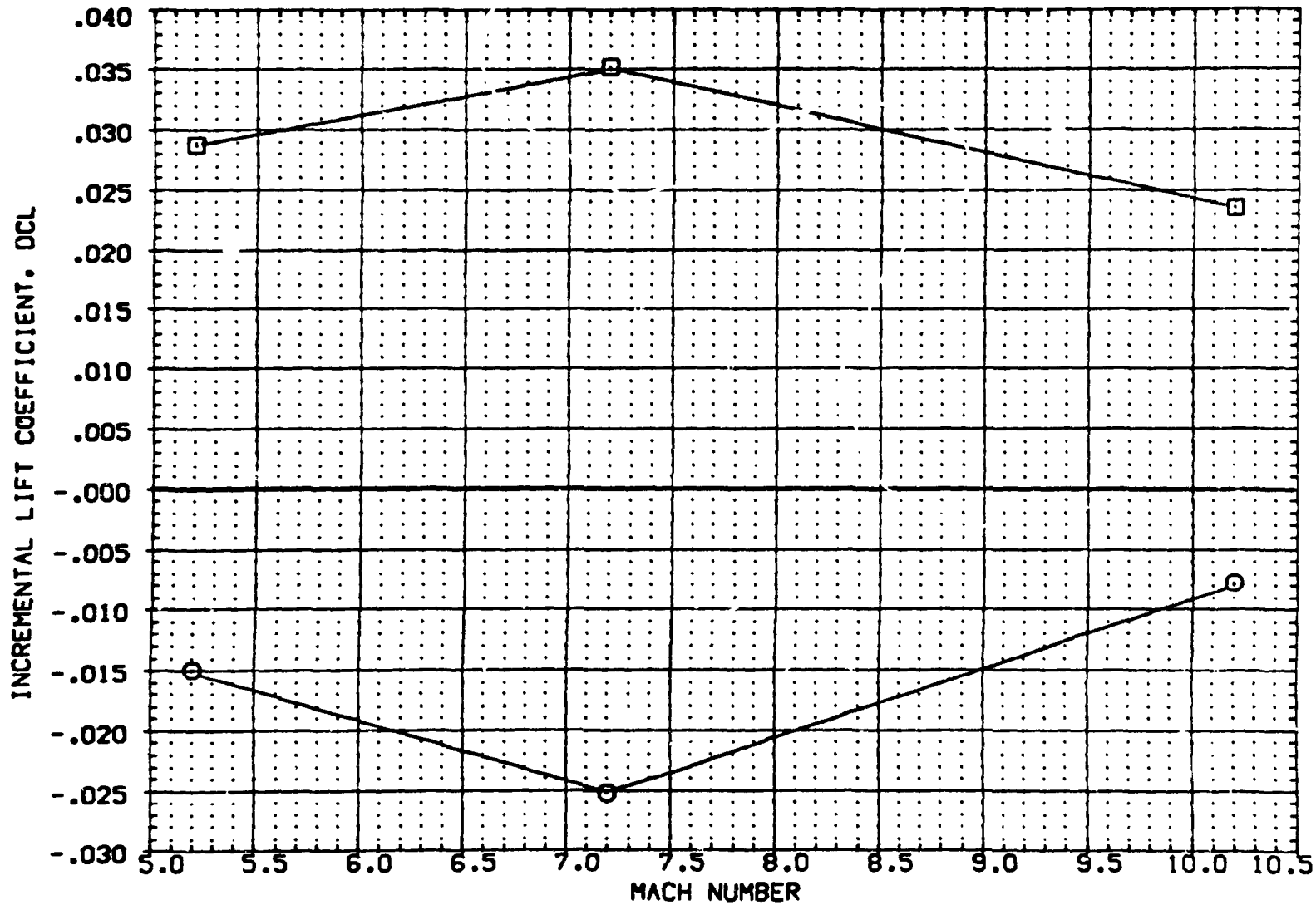


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

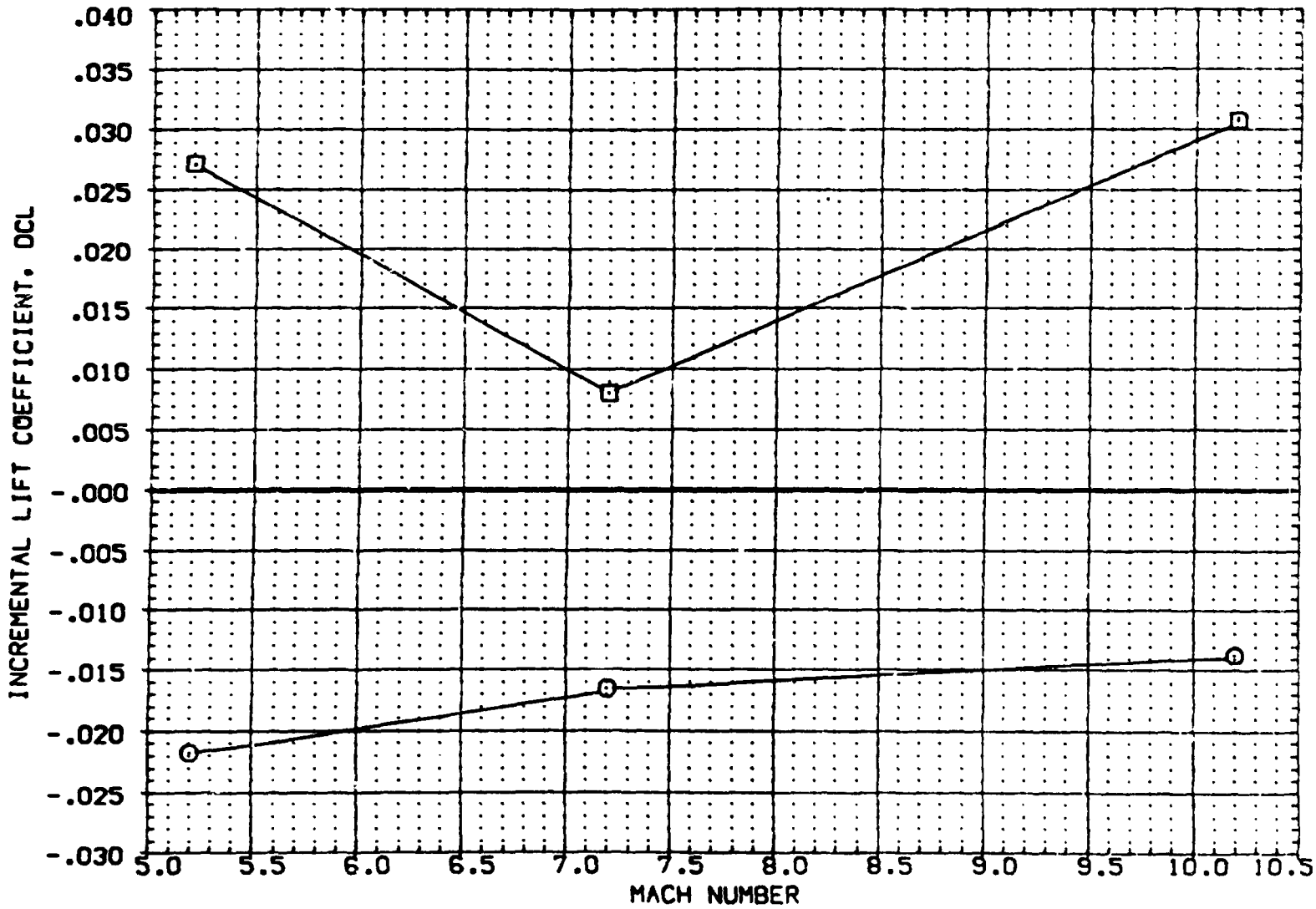


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001) ○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008) □	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

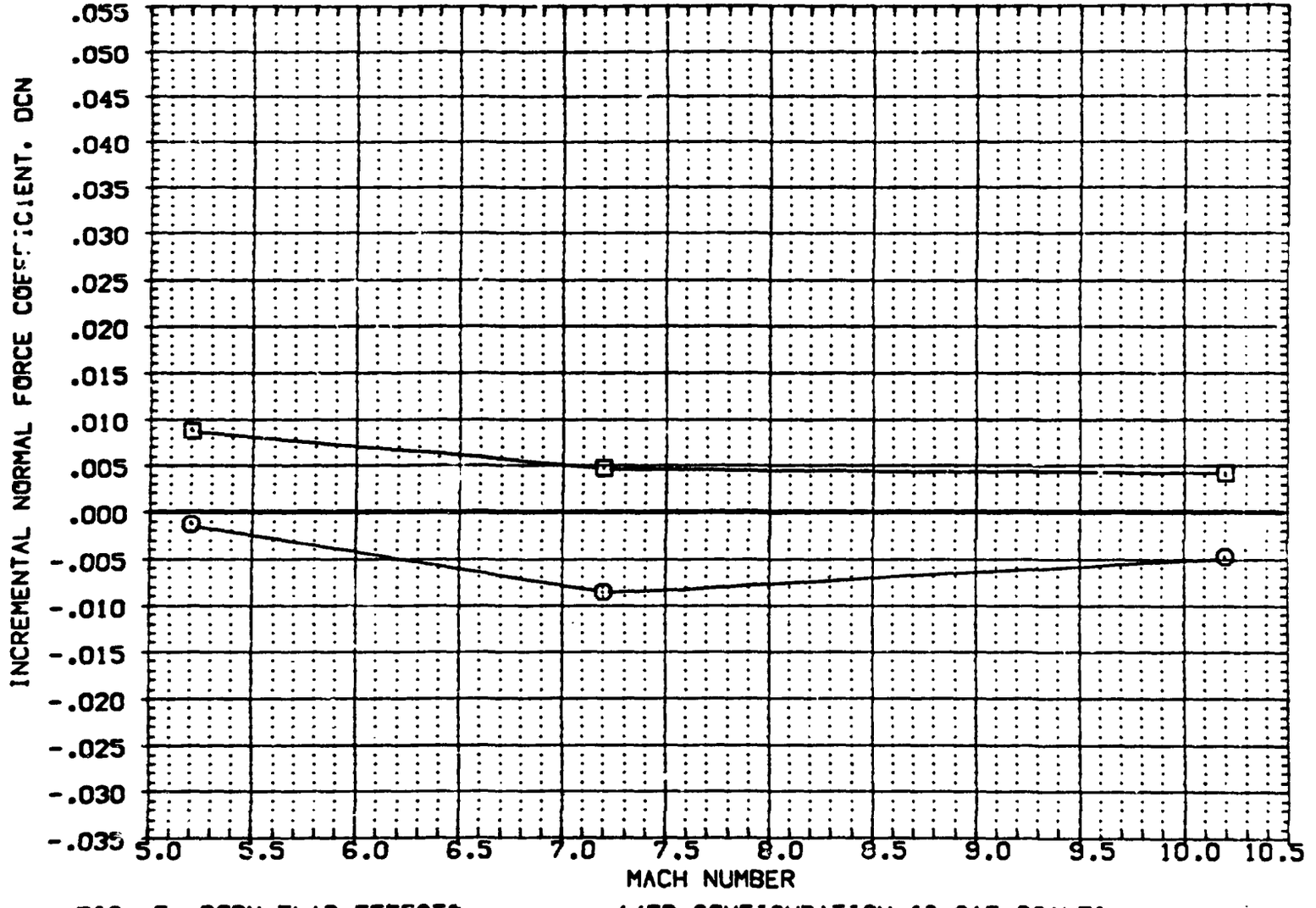


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	OBF	SPDBRK	RUDDER
(UB6001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(UB6008)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

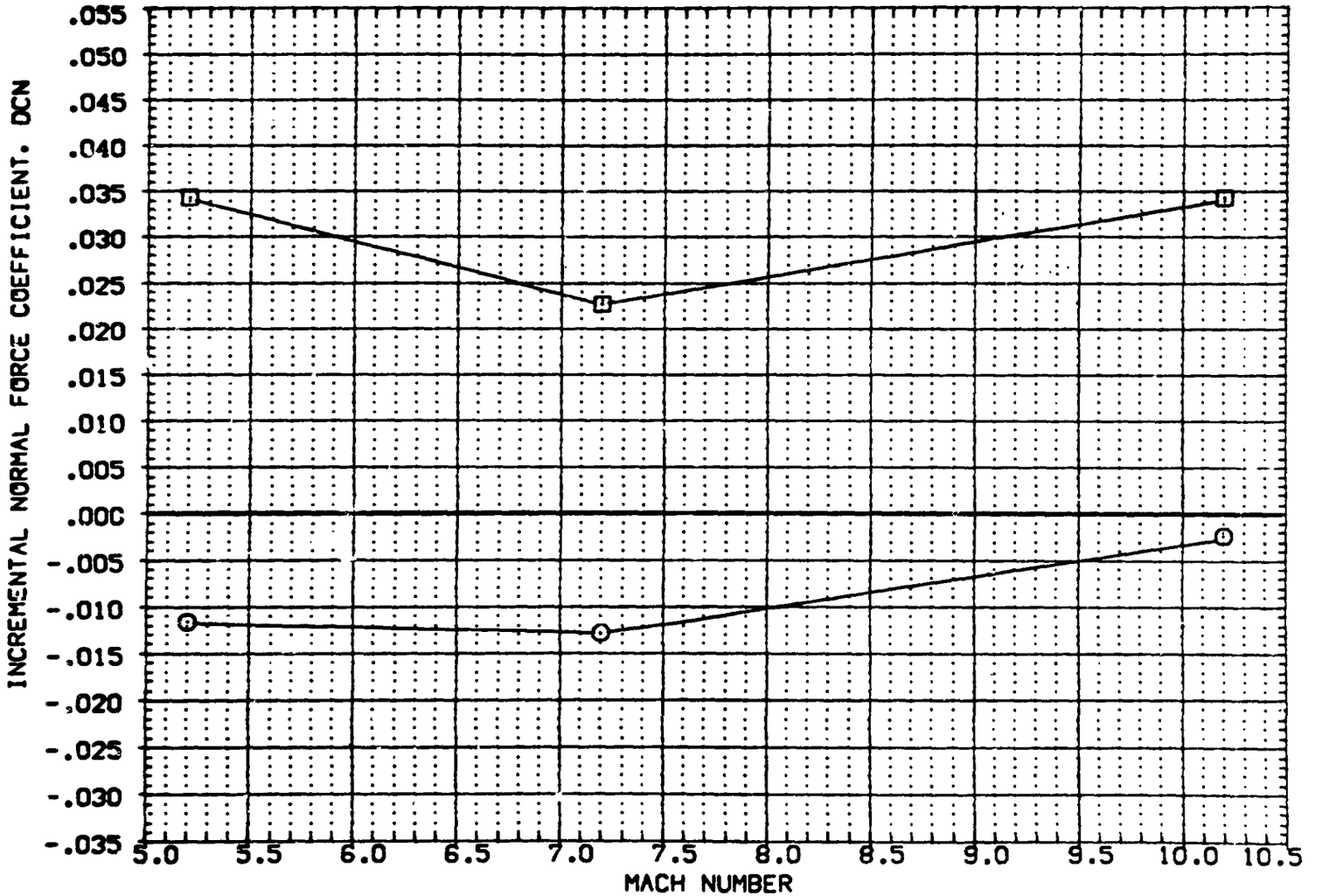


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)		AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(U86008)		AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	15.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

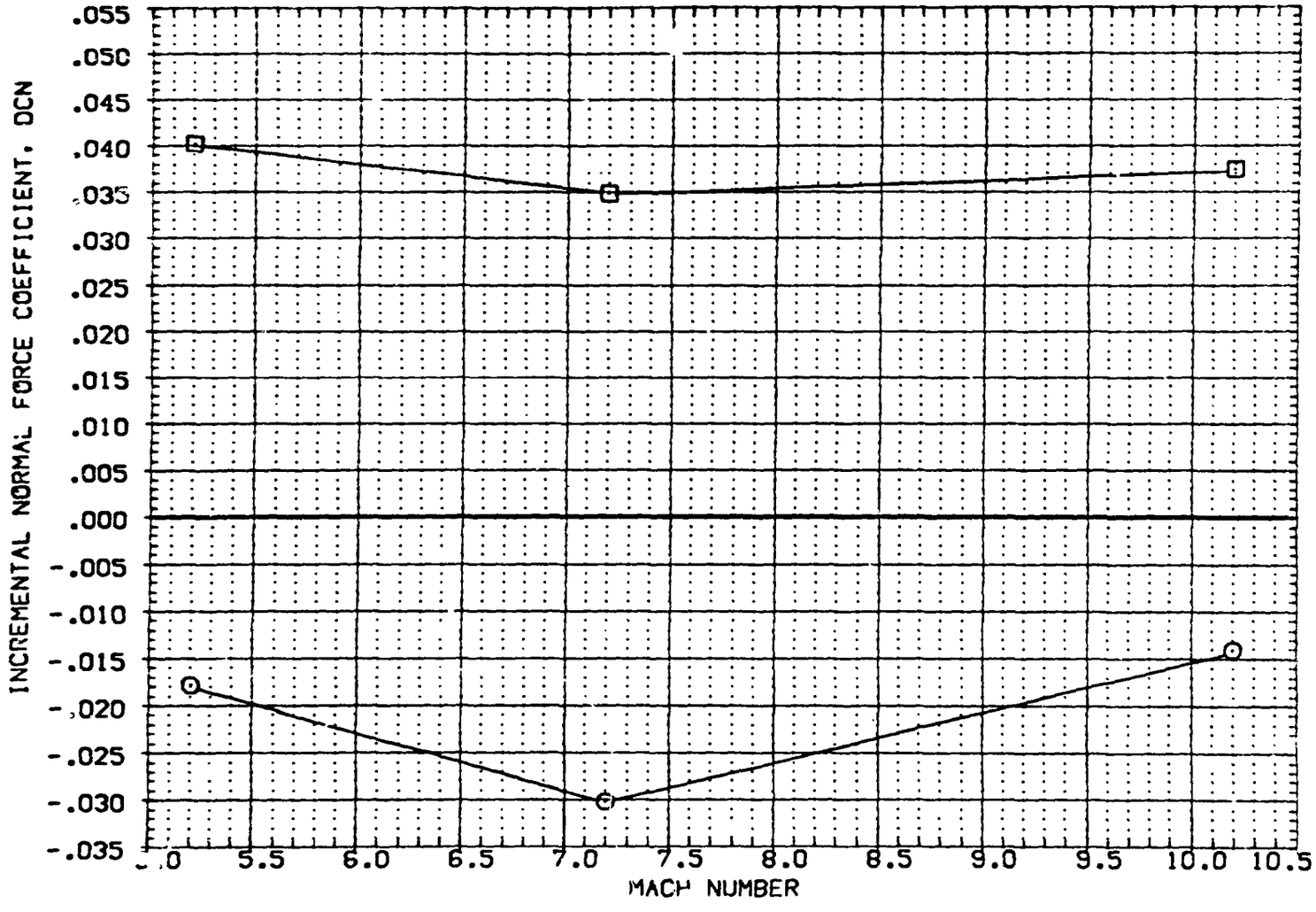


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V10"	.000	-14.250	55.000	.000
(U86008)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V10/	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1075.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

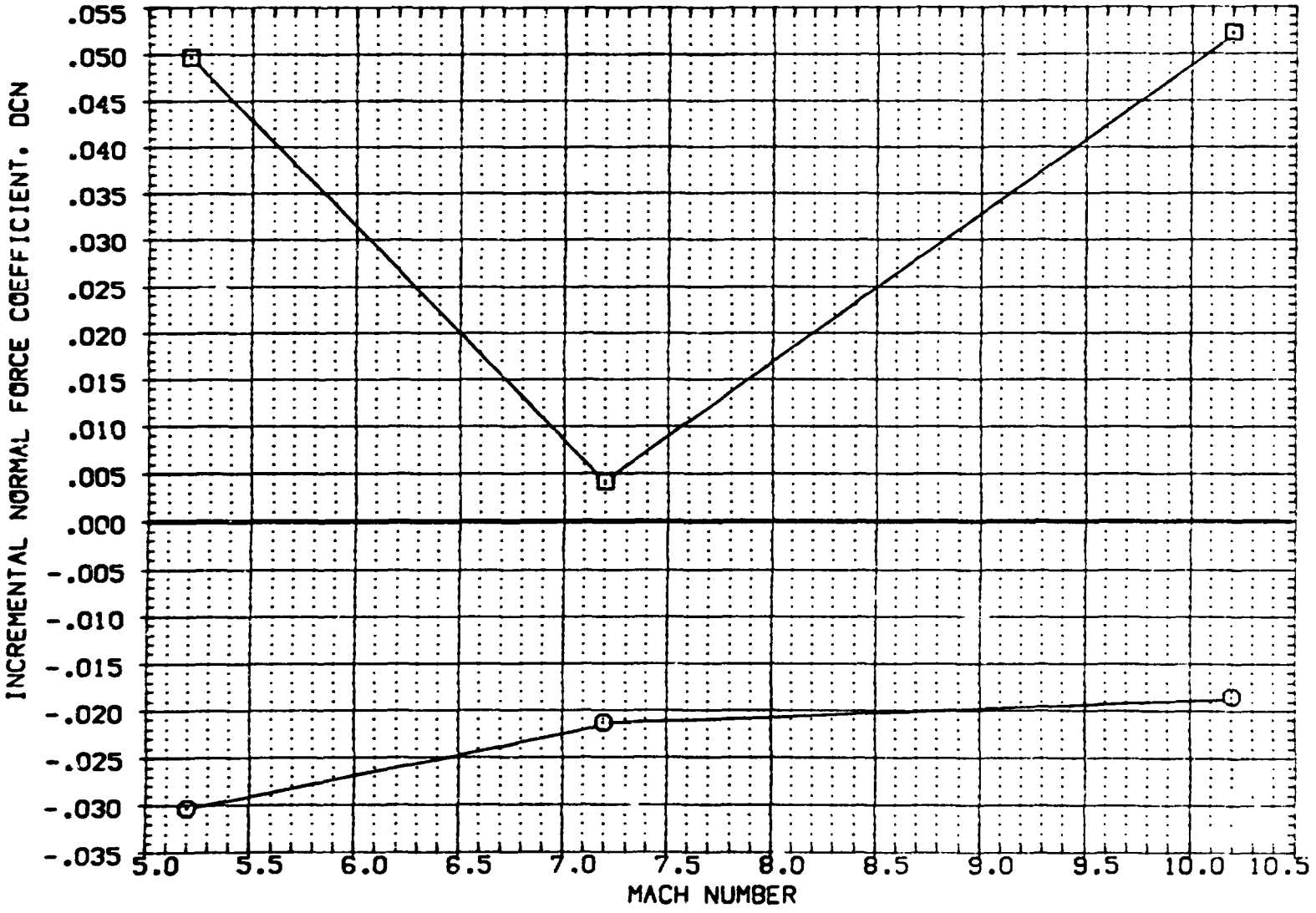


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

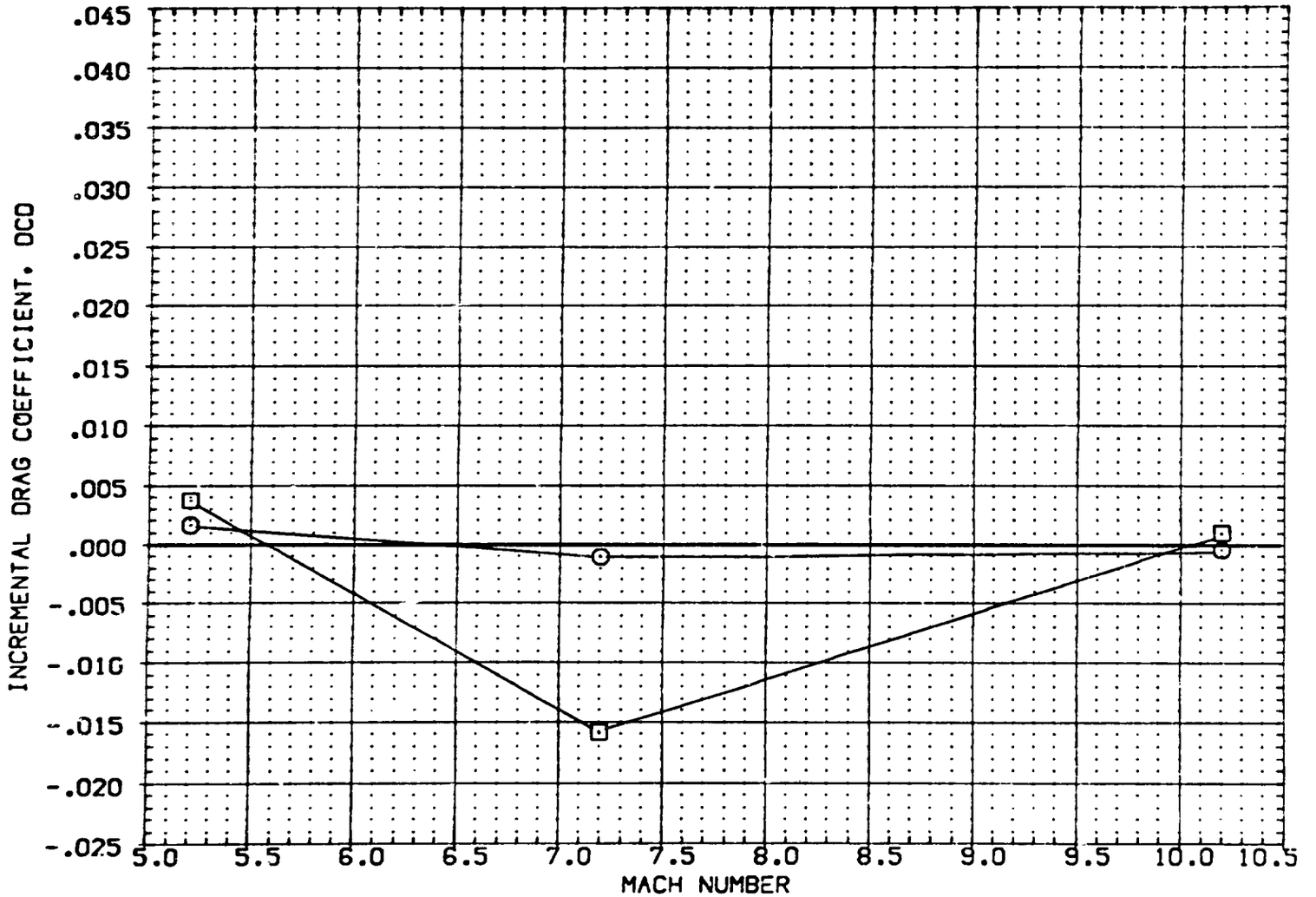


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

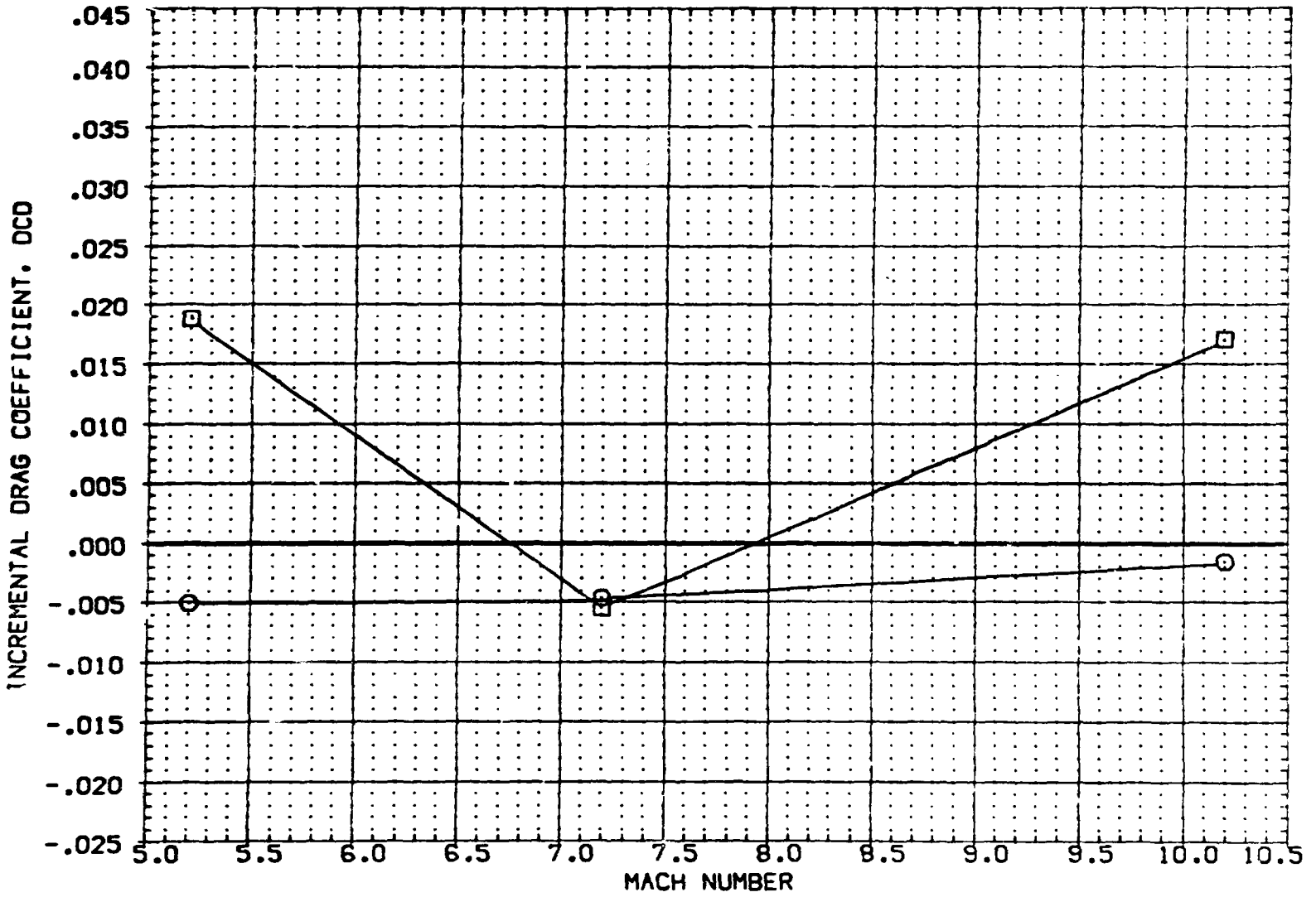


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

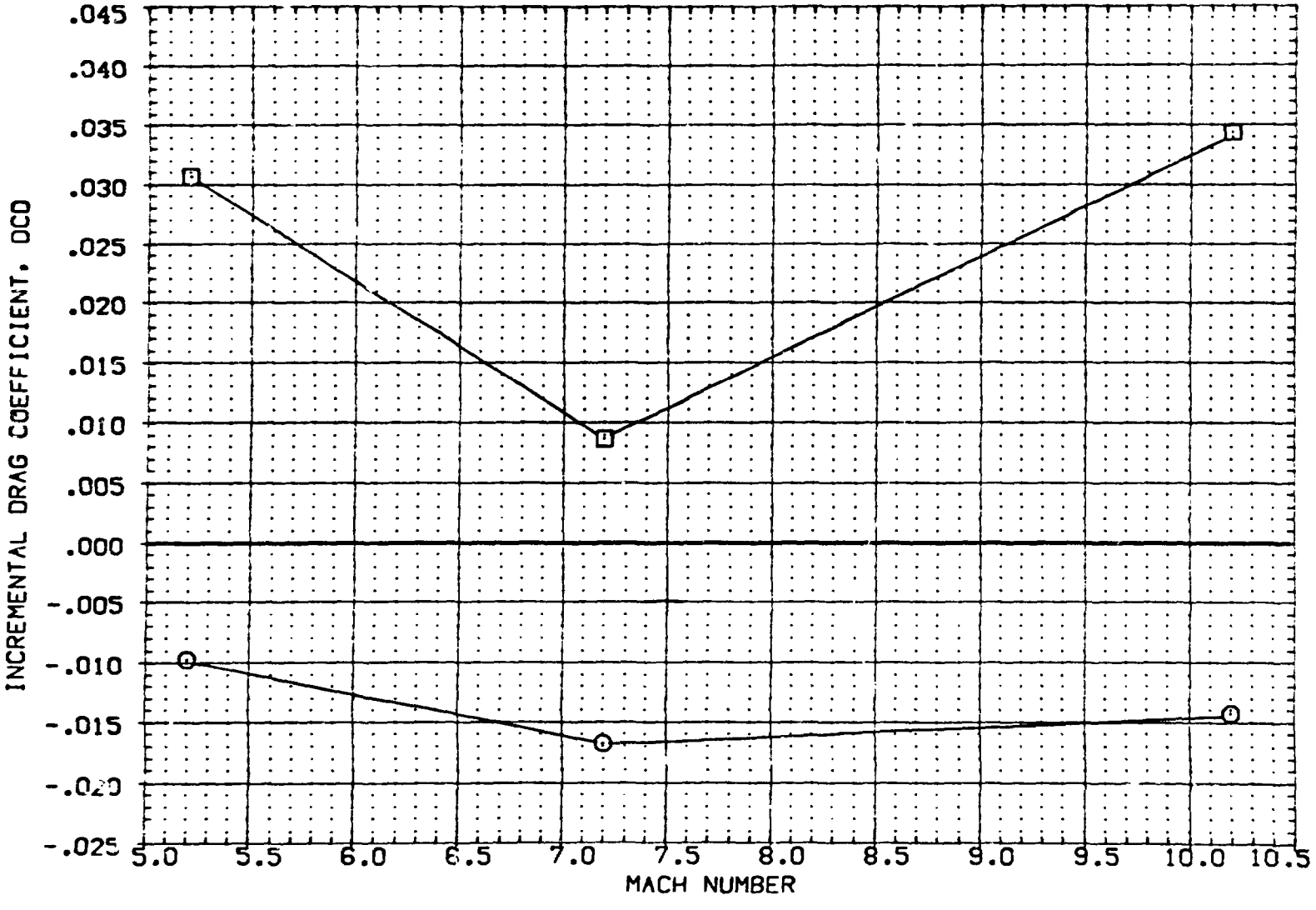


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.0000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

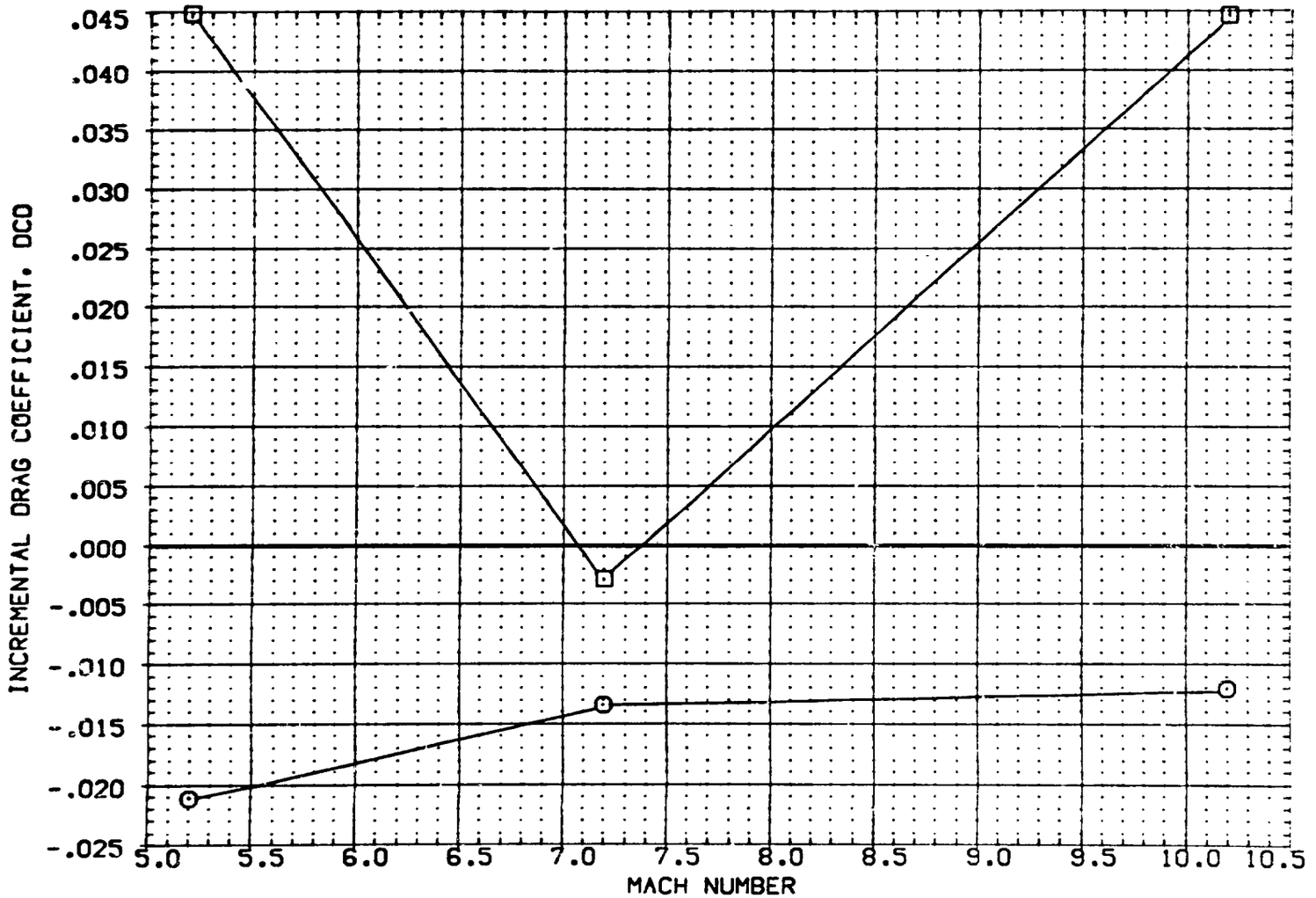


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(U86006)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

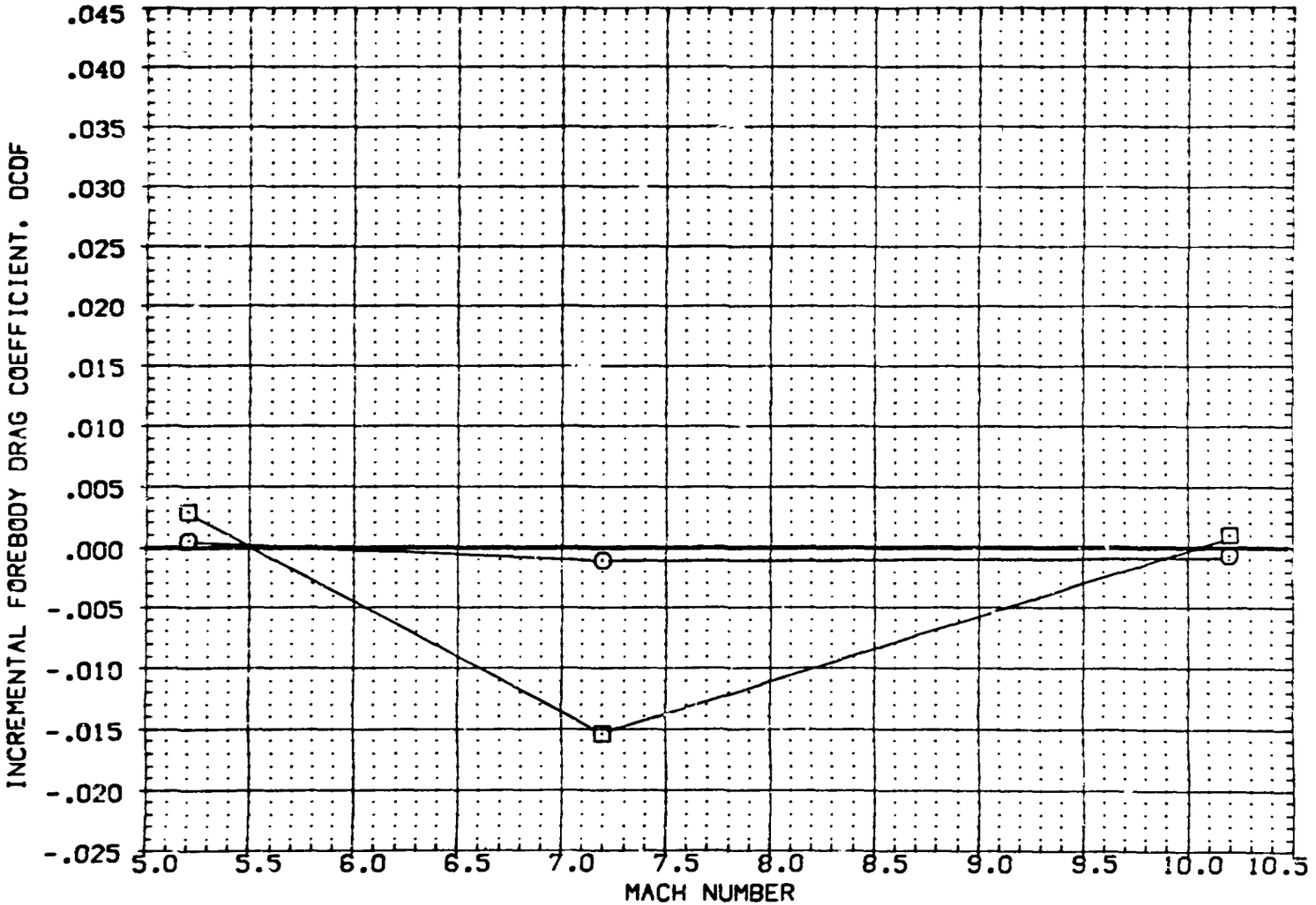


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(UB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(UB6008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	93.6800	IN.
XMRP	107.1800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

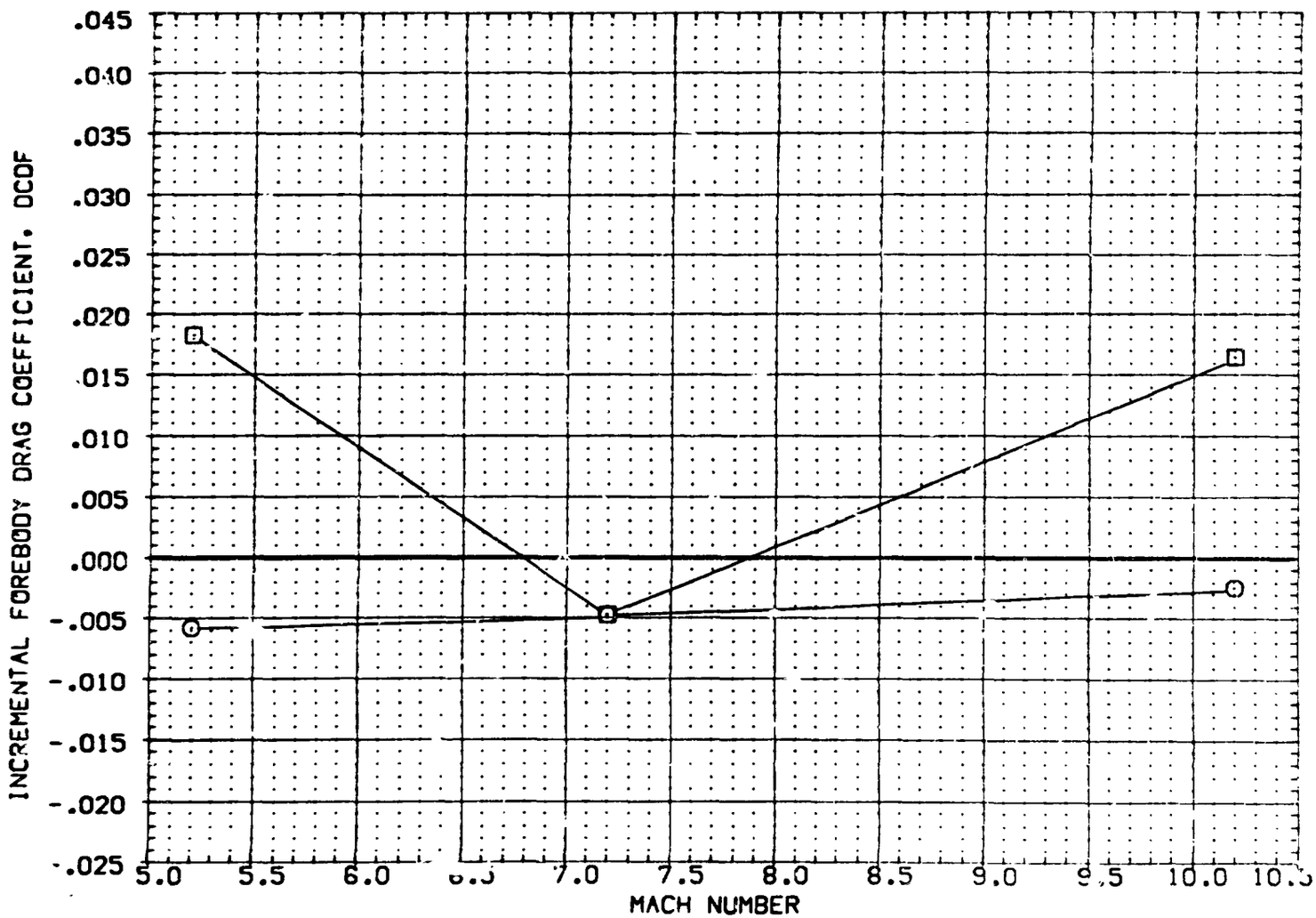


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	OBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	FT.
BREF	936.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

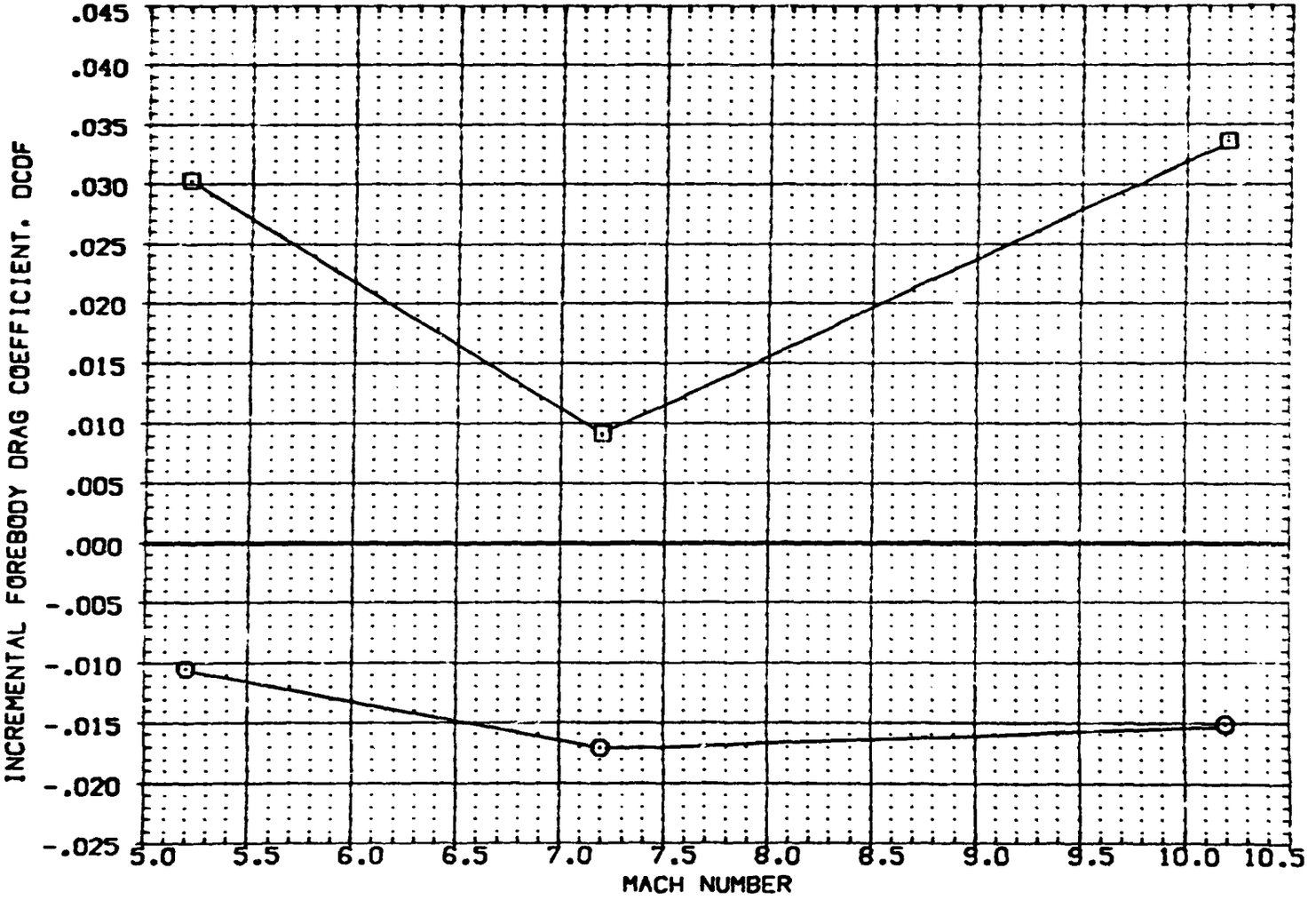


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	OBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

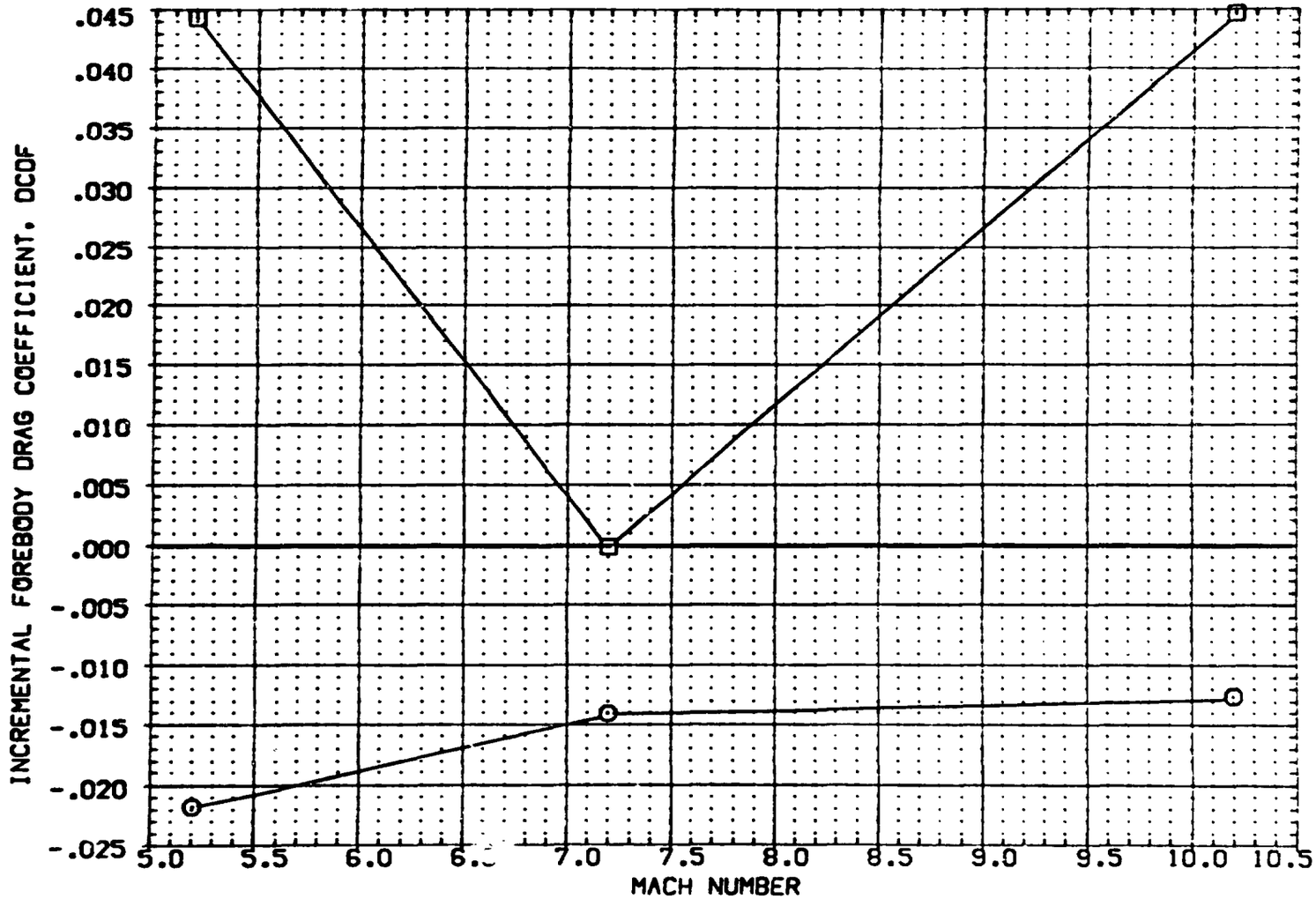


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

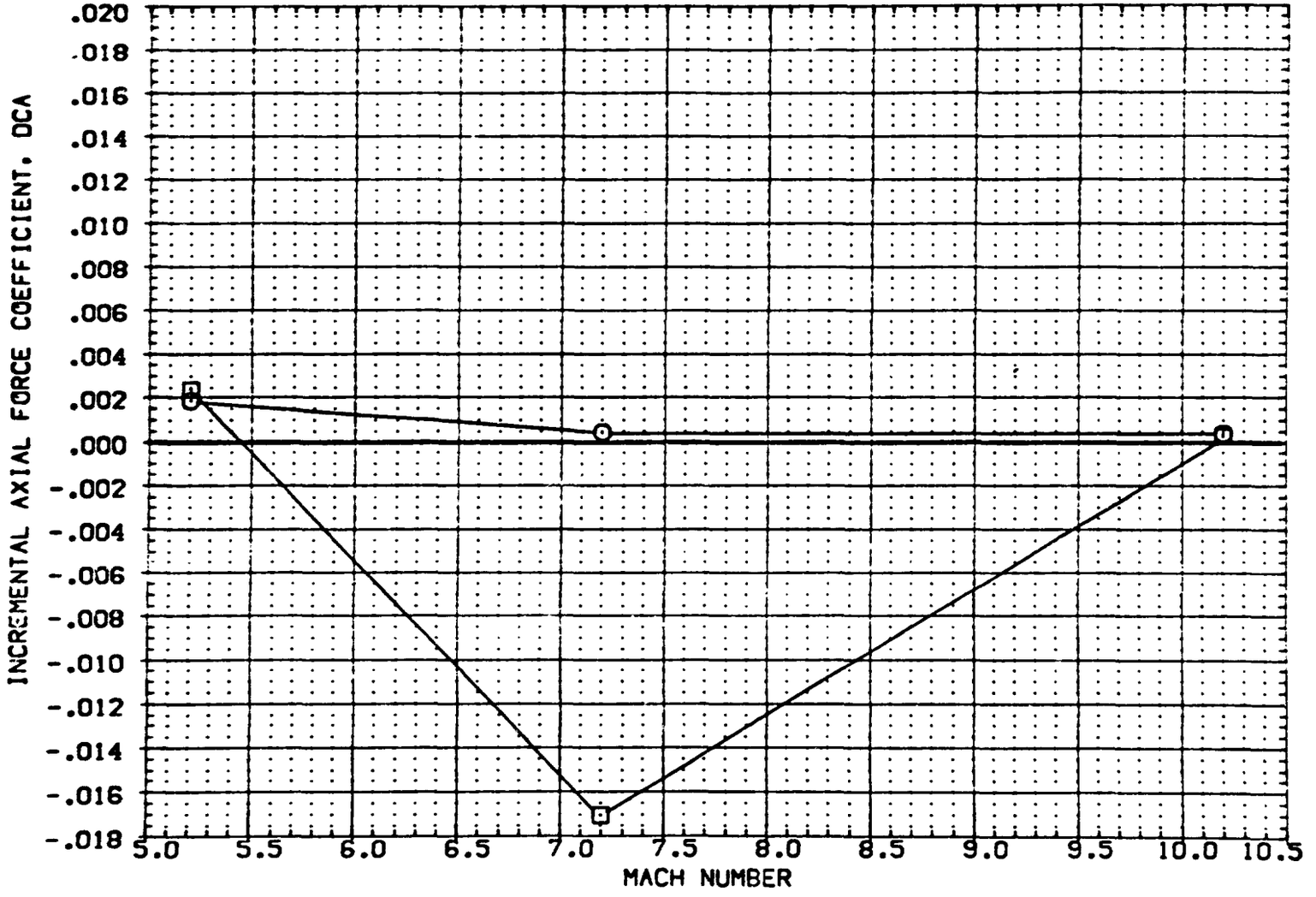


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

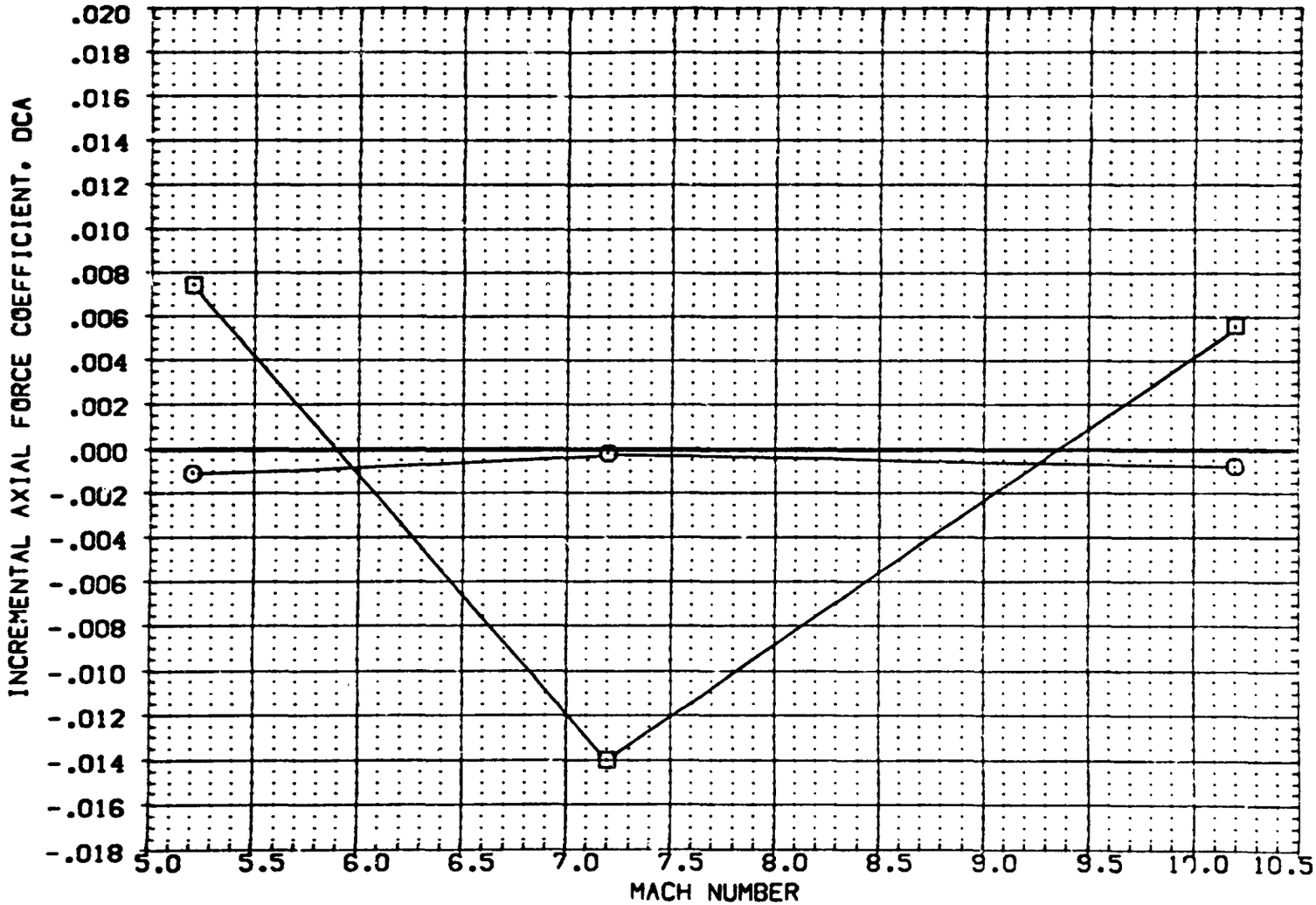


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

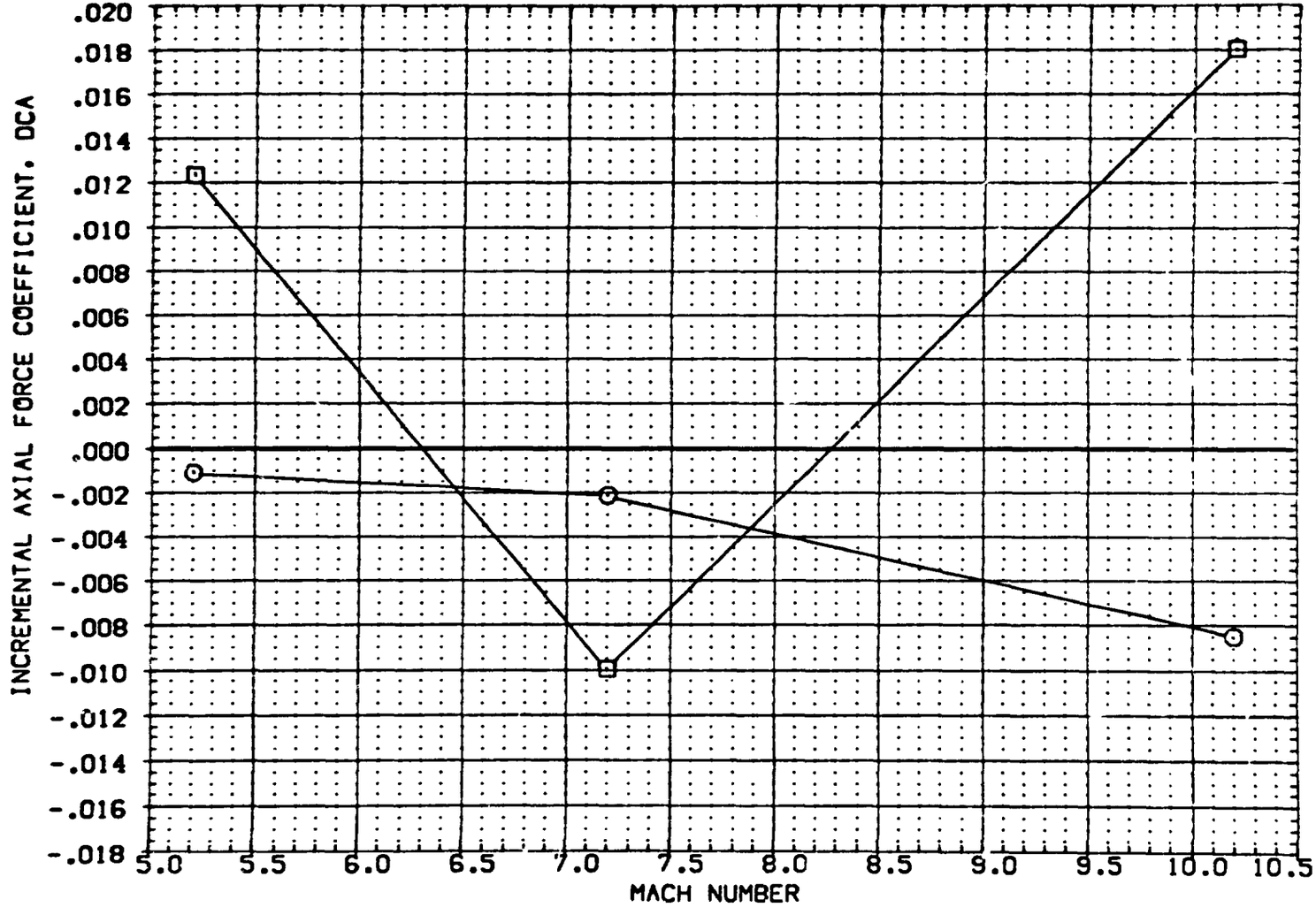


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	OBF	SPDBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

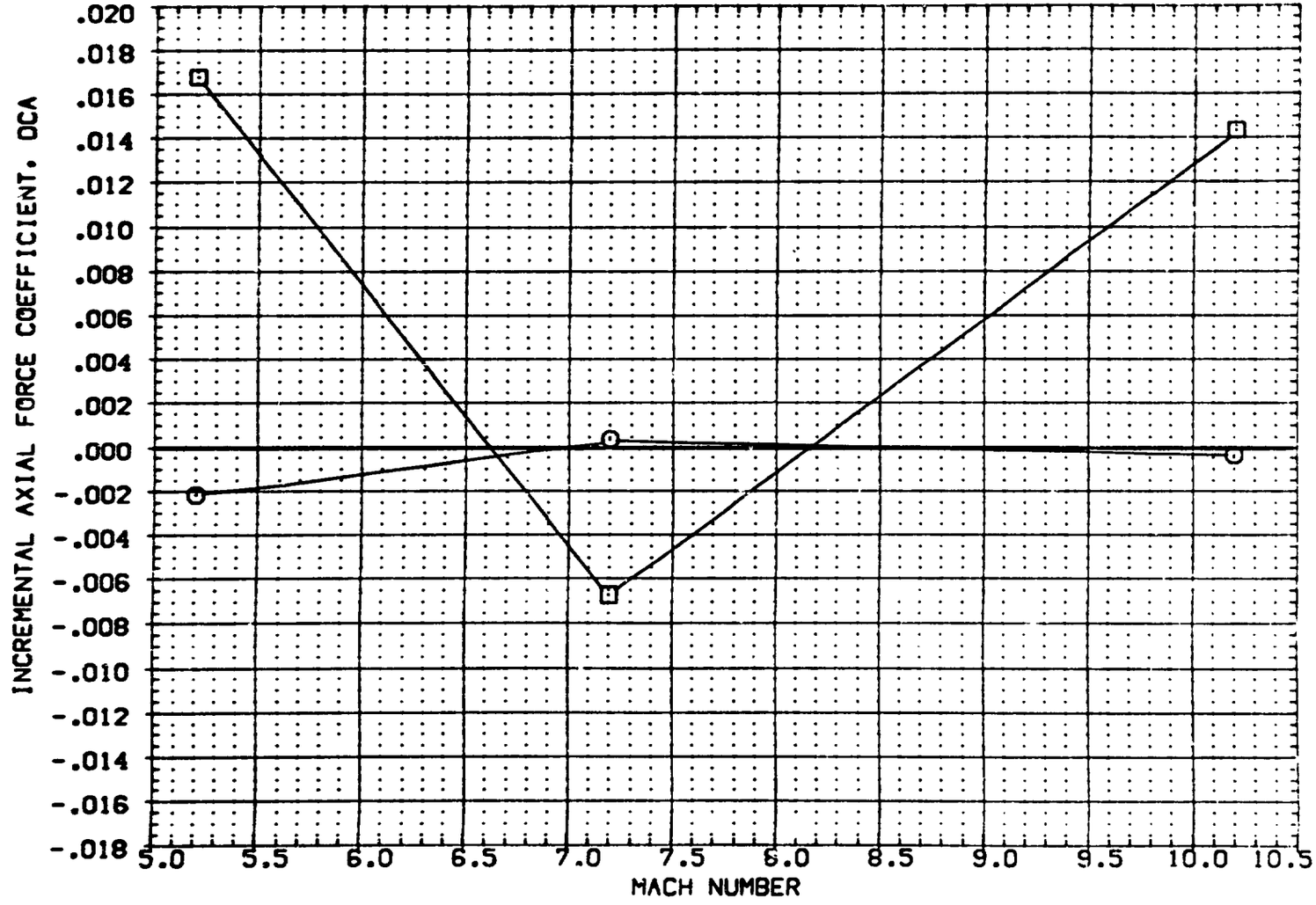


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(U86008)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

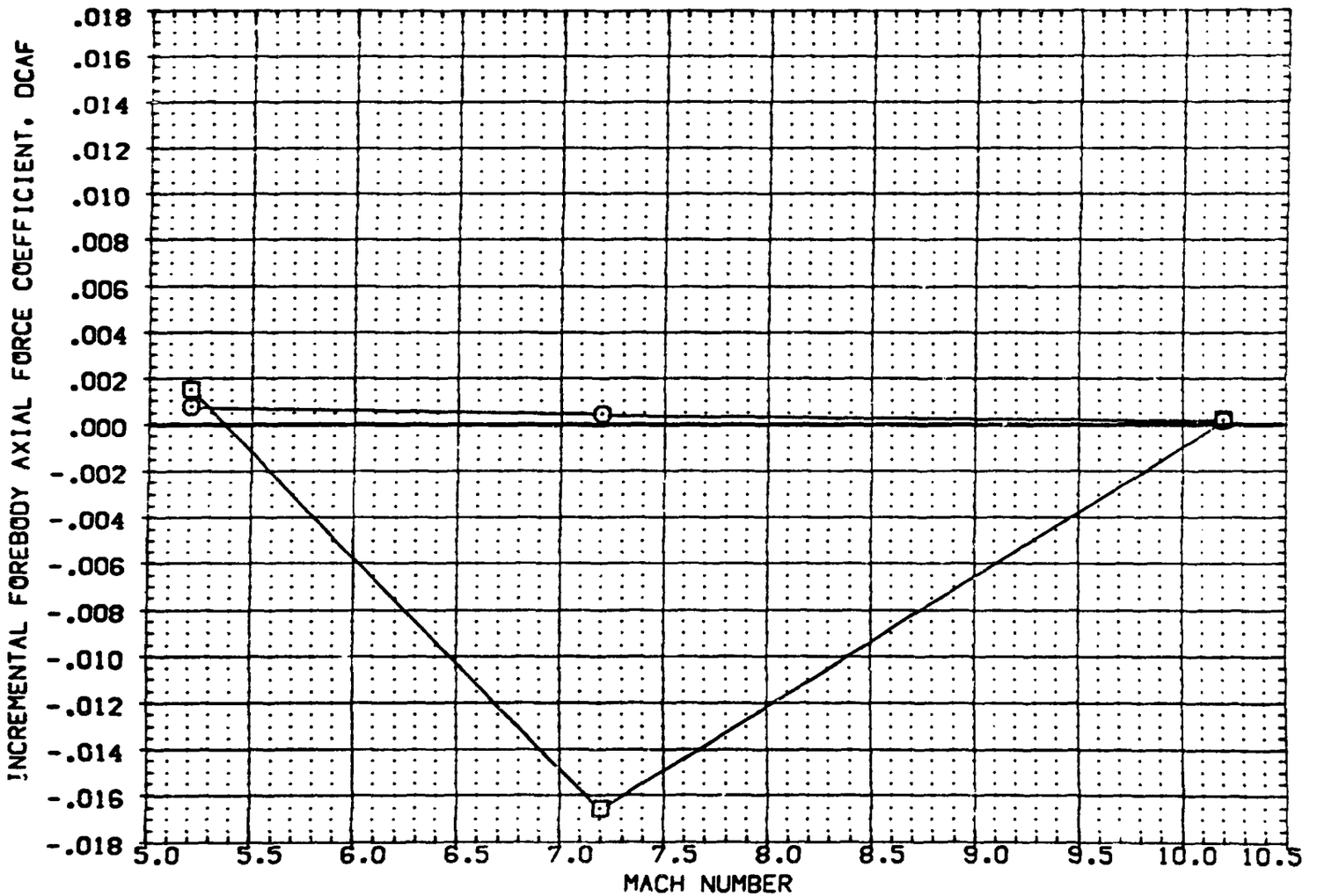


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.8000	IN.
XMRP	1076.0000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

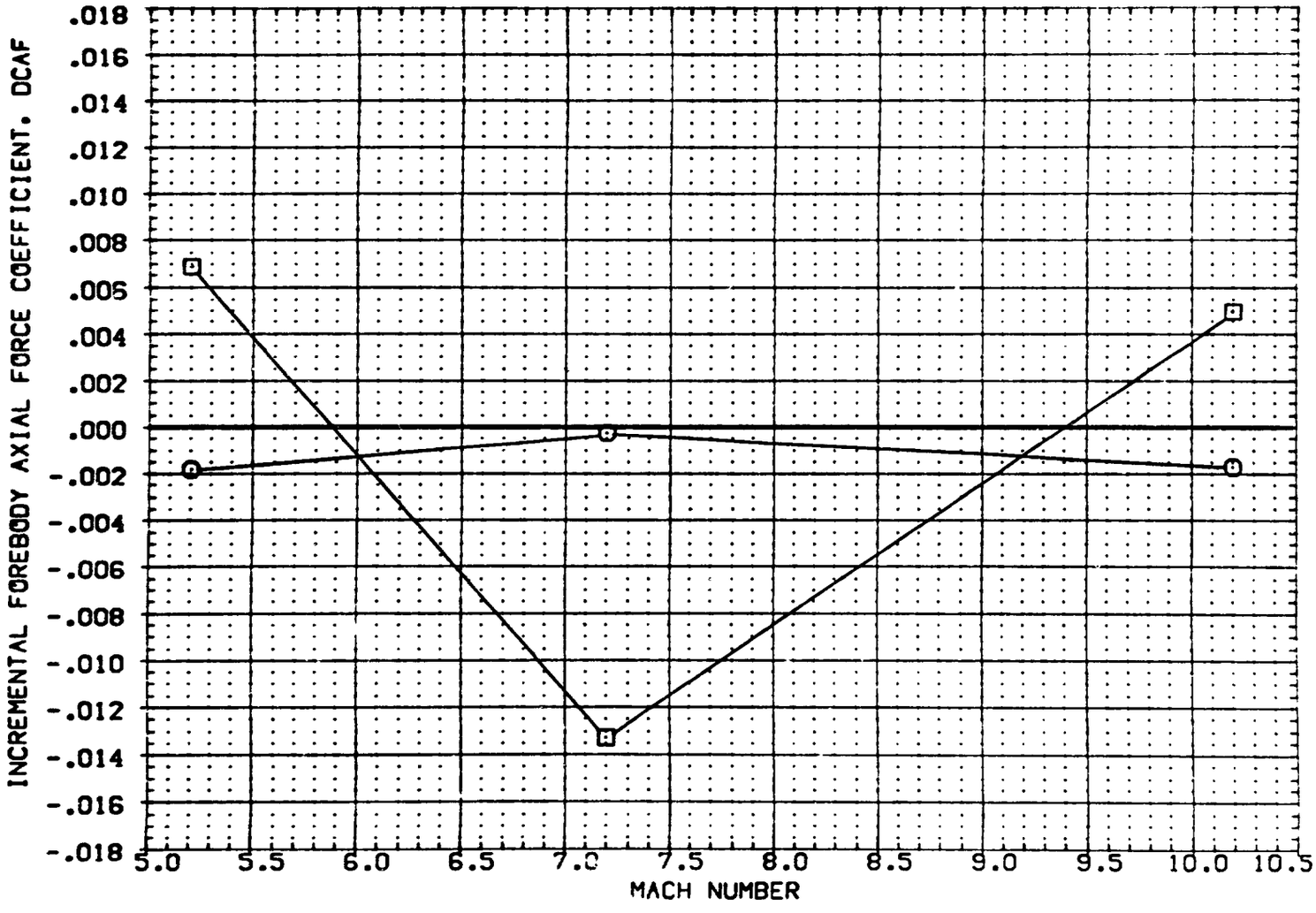


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

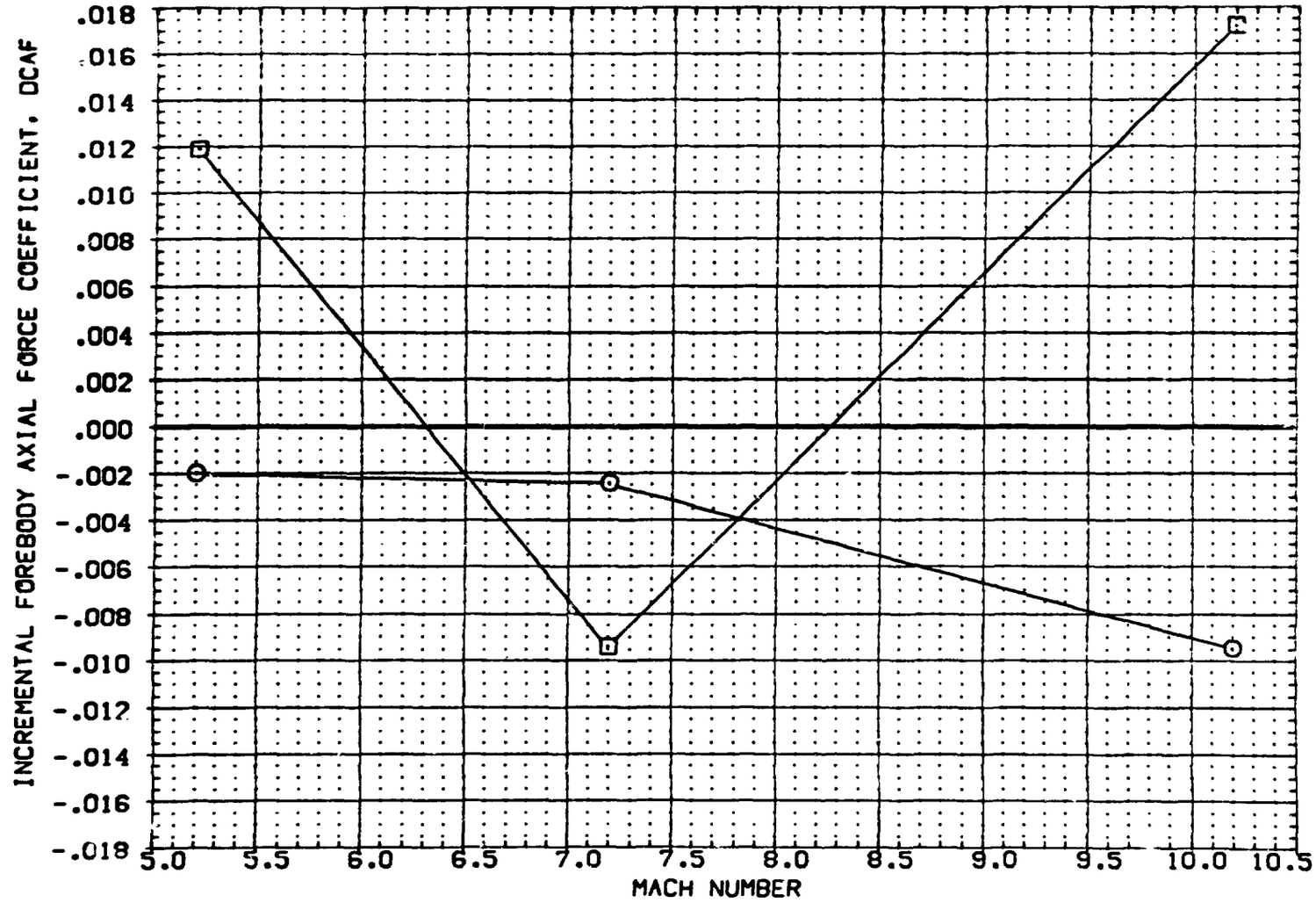


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	OBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

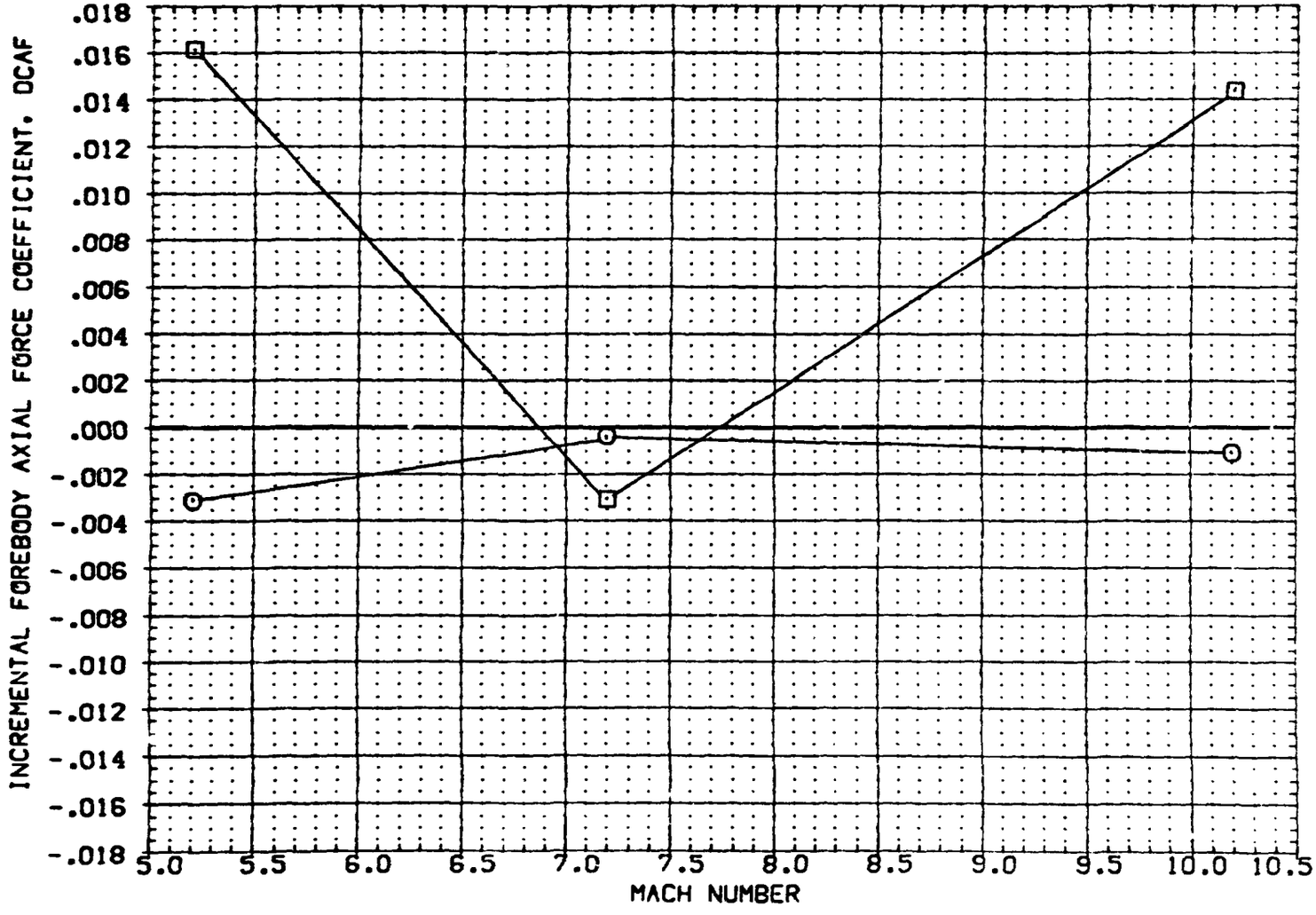


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(O)ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

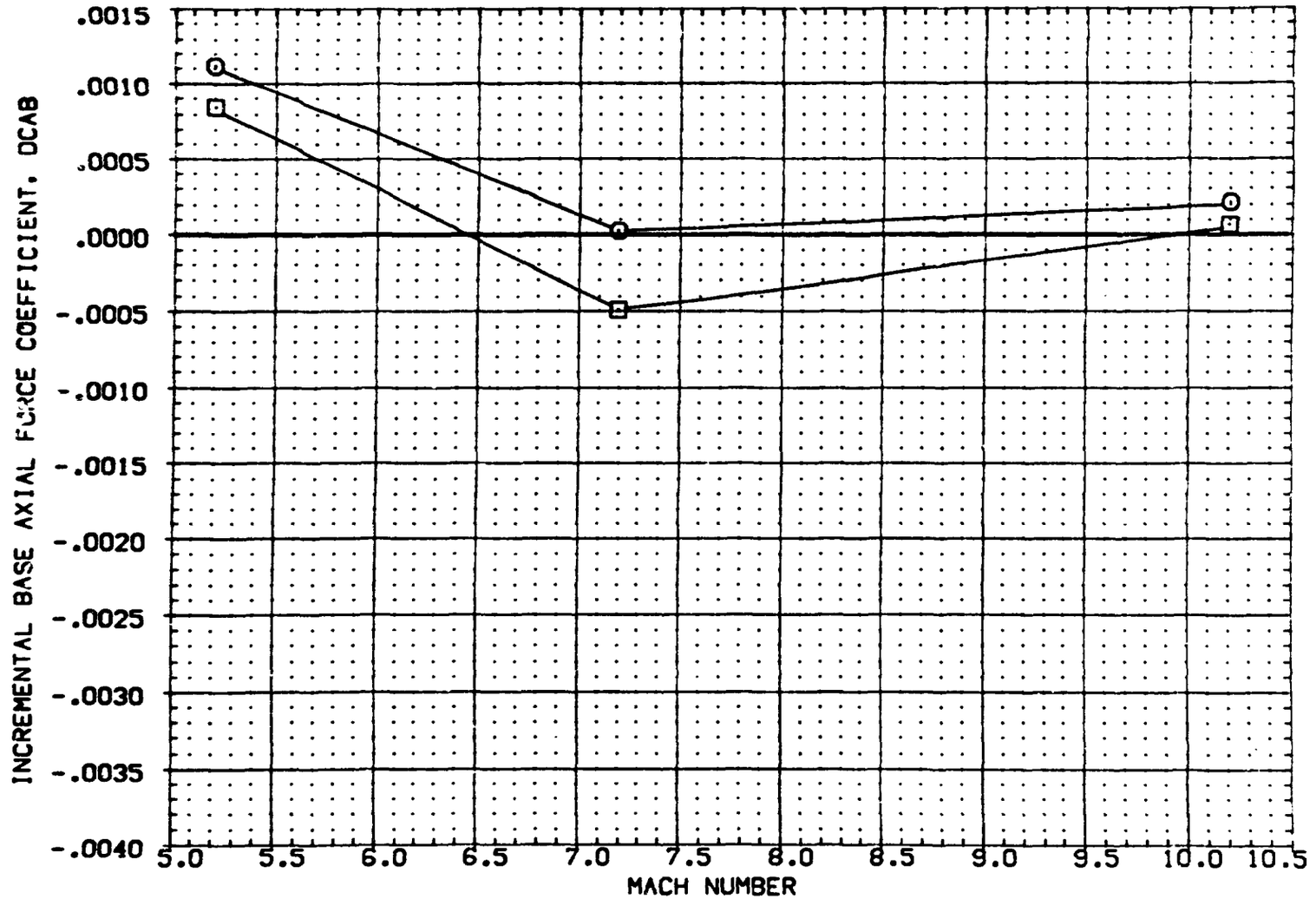


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U8600I)	8	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U8K208)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.3000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

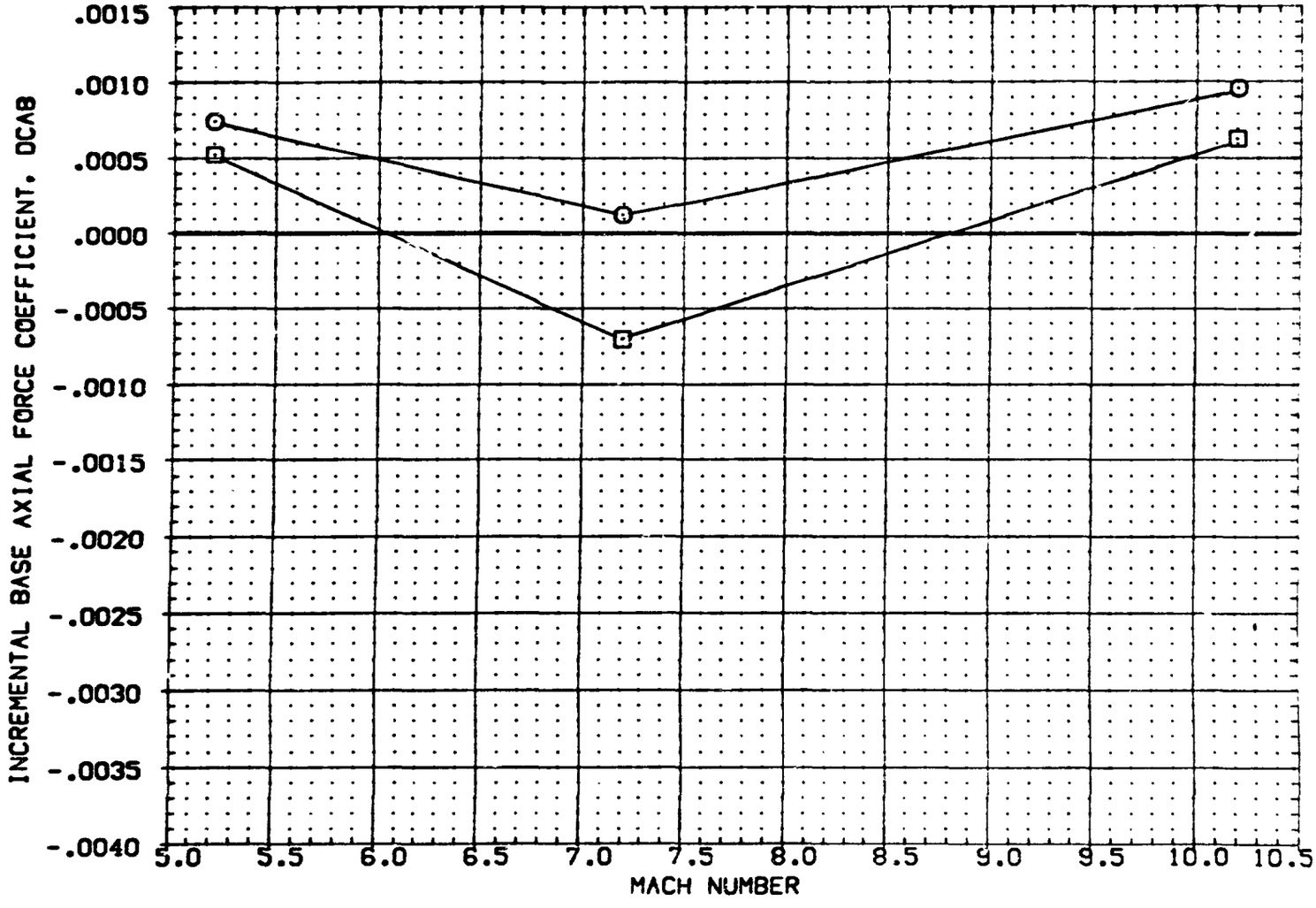


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
[U86001]	○	AMES3.5-168 0A23 822 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
[U86008]	□	AMES3.5-168 0A23 822 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

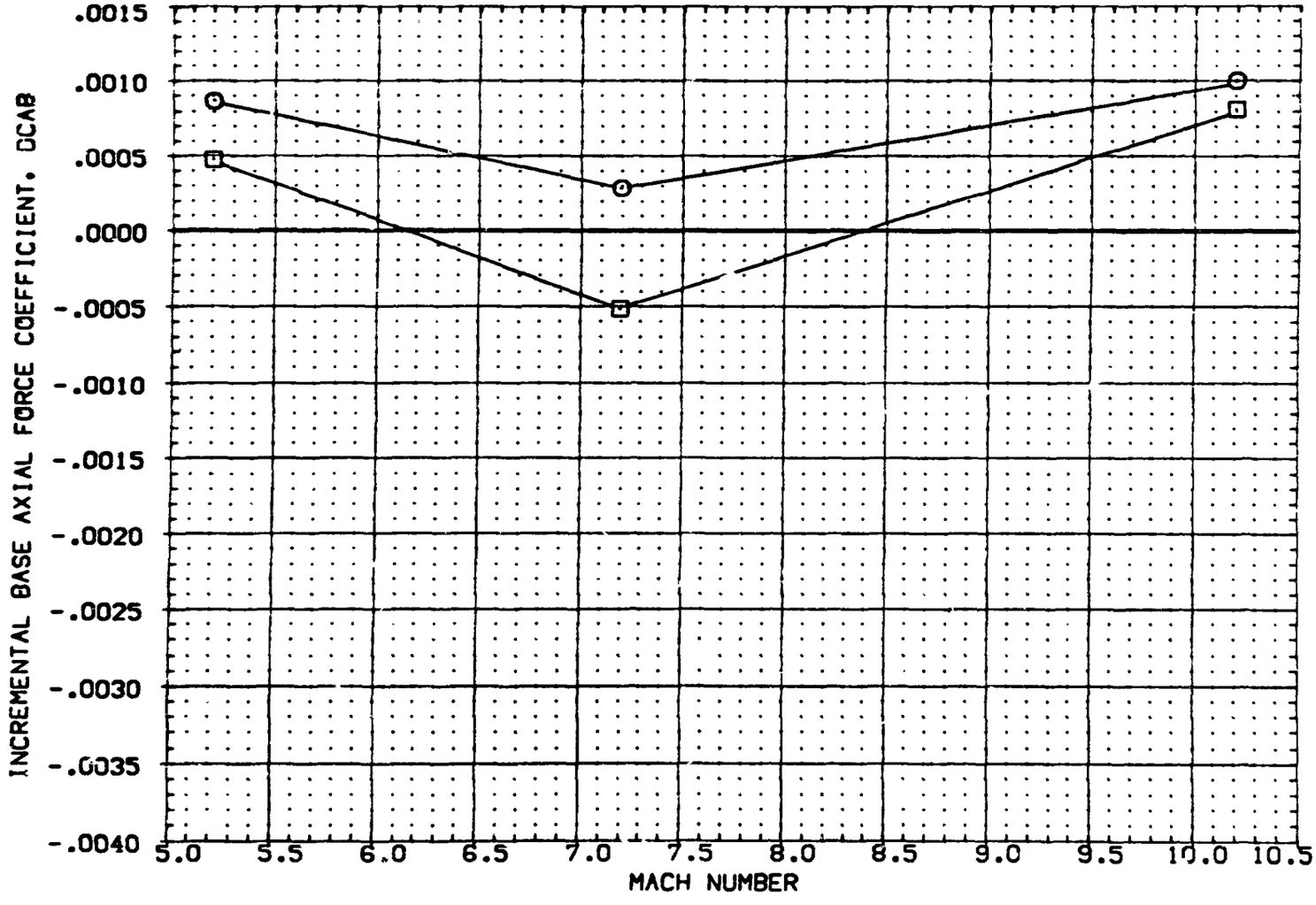


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

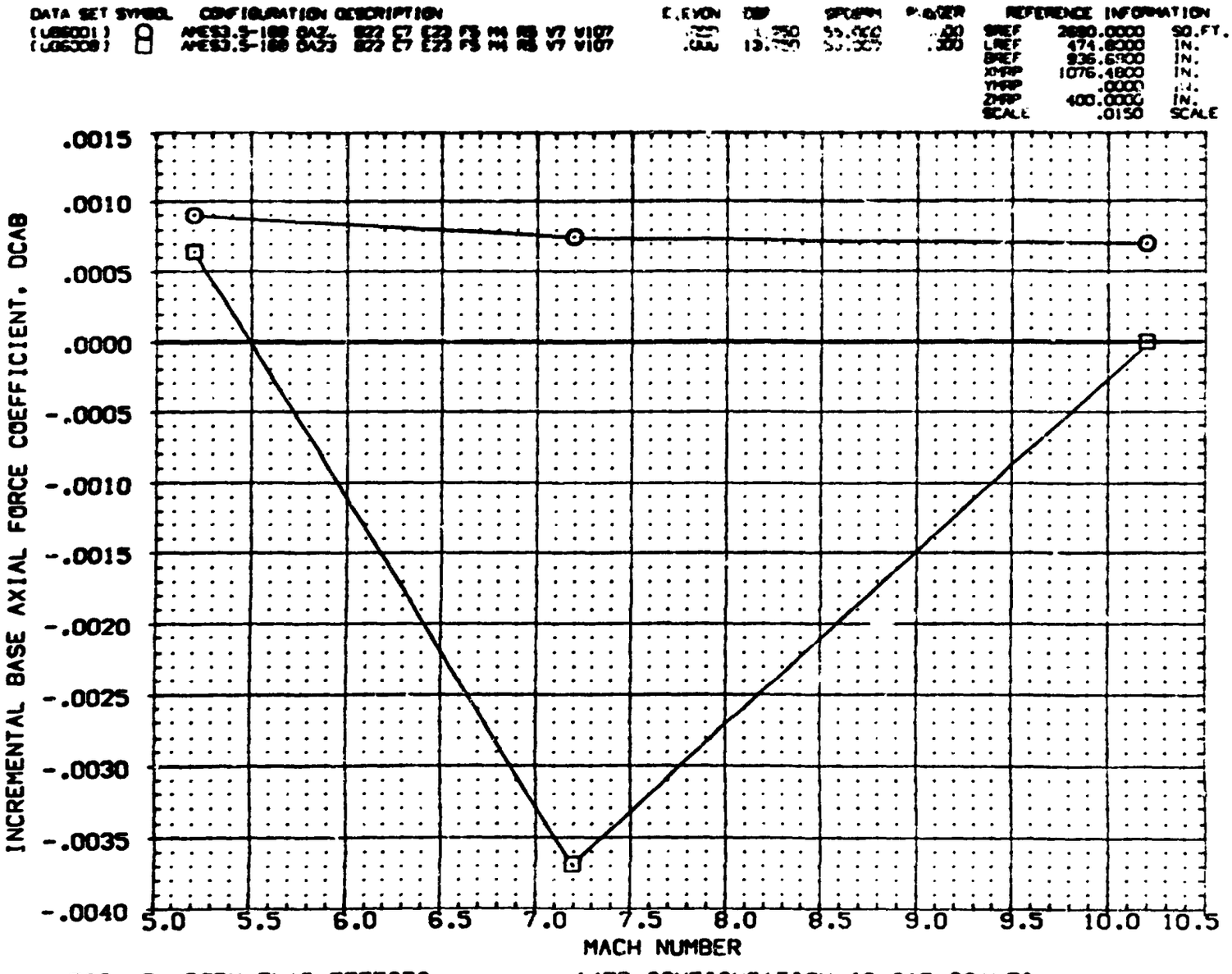


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4900	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

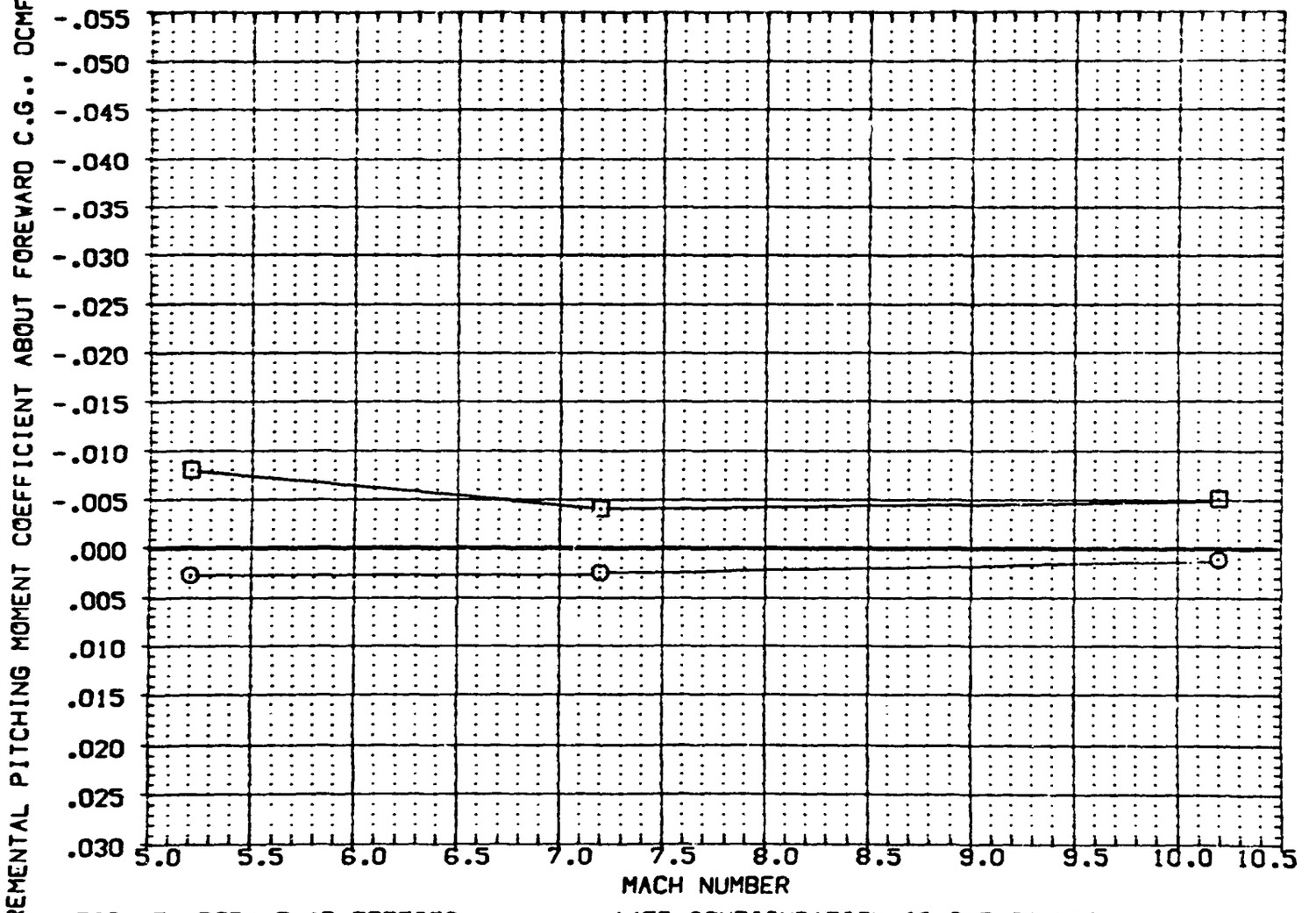


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	OBF	SPOBRK	RUDDER
(U86001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.0000	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

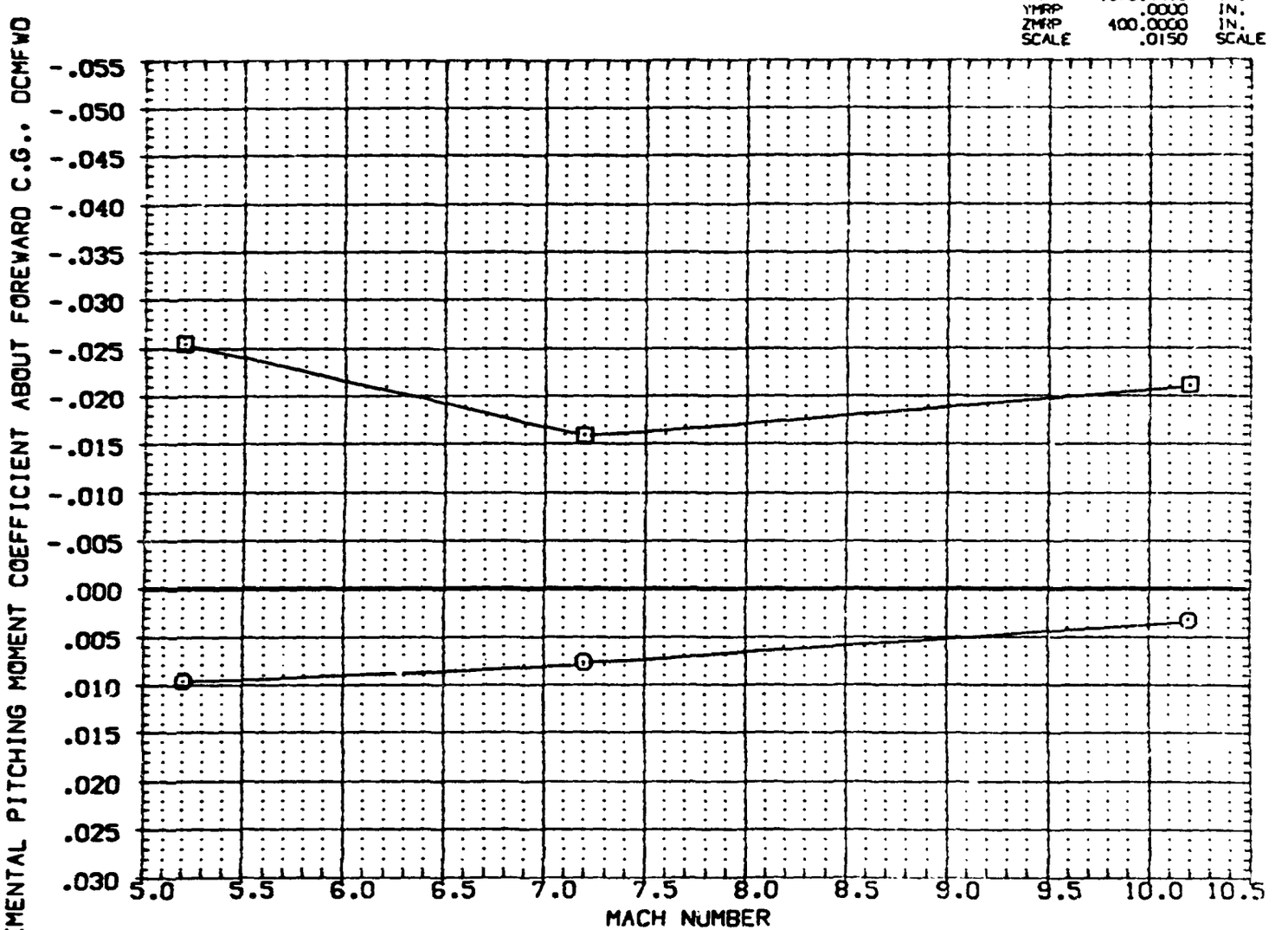


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	8	AMES3.5 168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	8	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

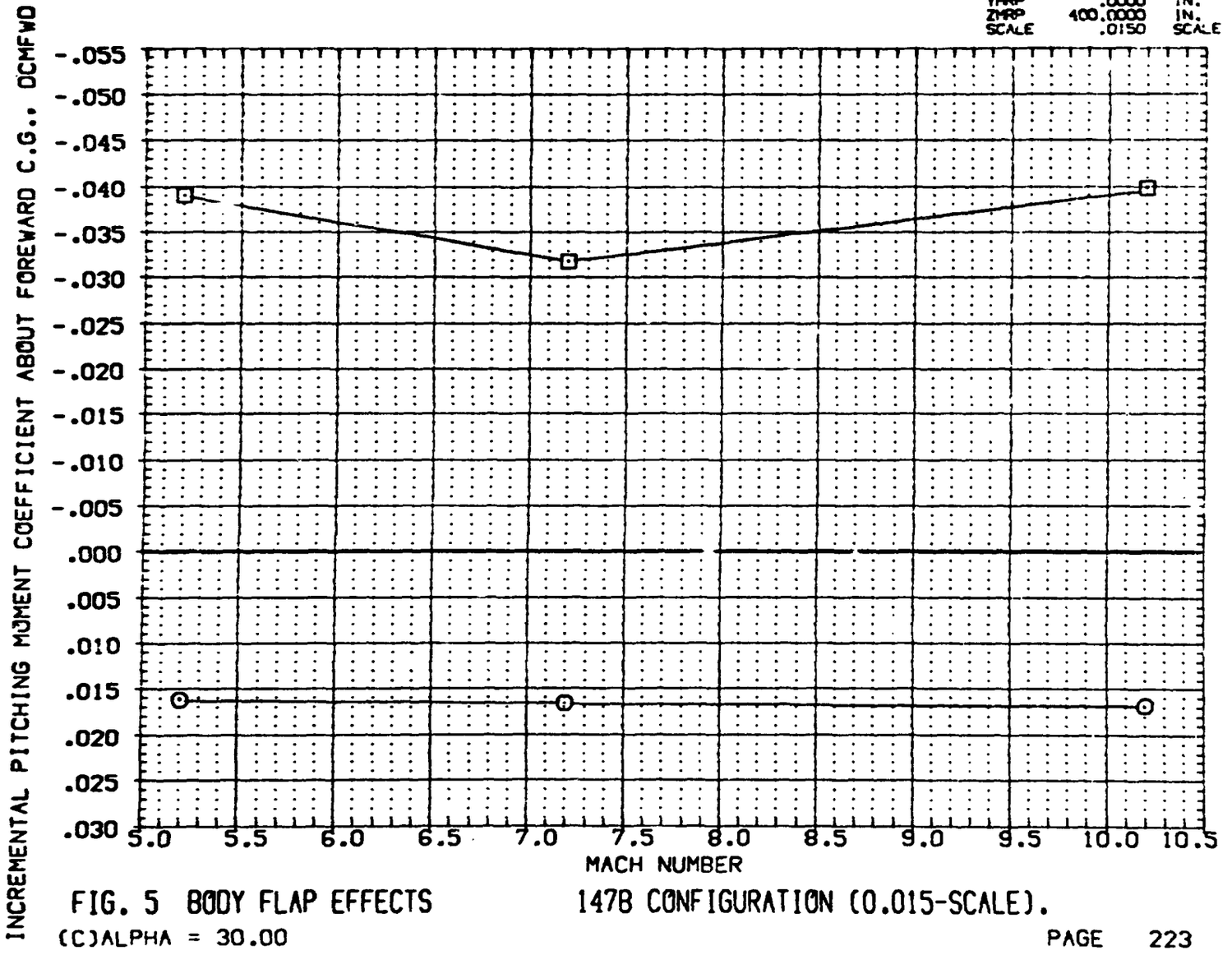


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	OBF	SPOBRK	RUDDER
(U86001)	⊡	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

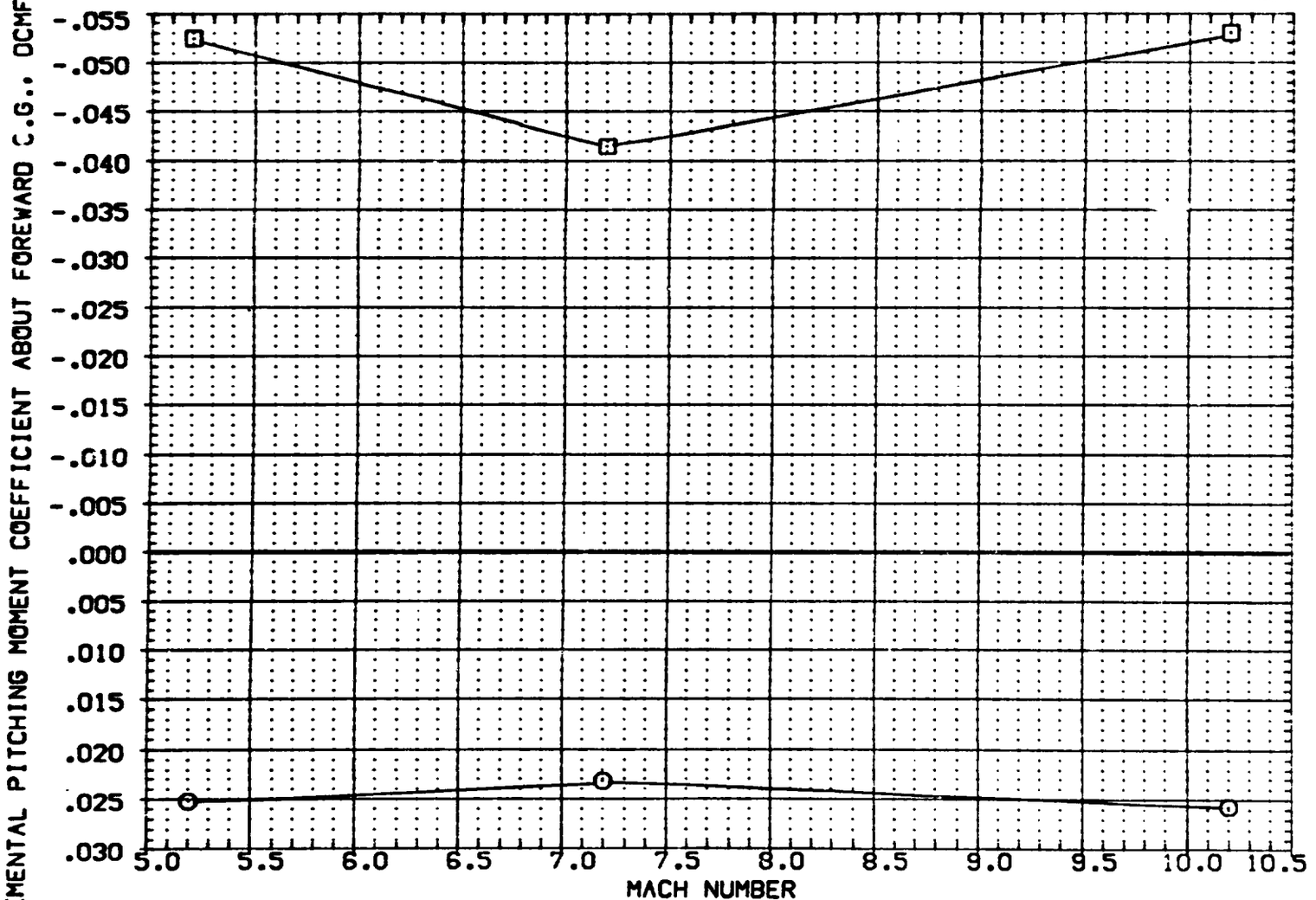


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

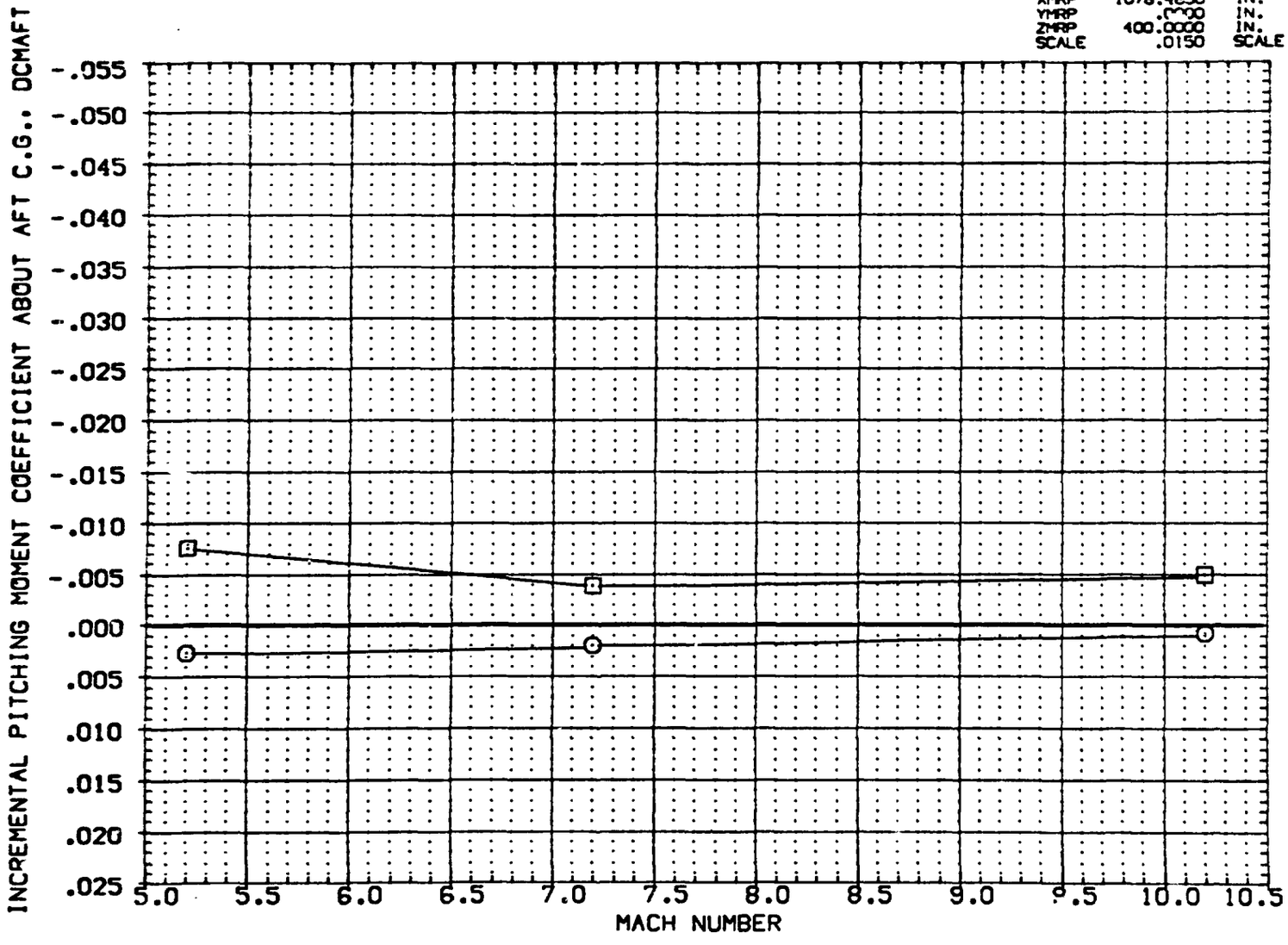


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)ALPHA = 10.00

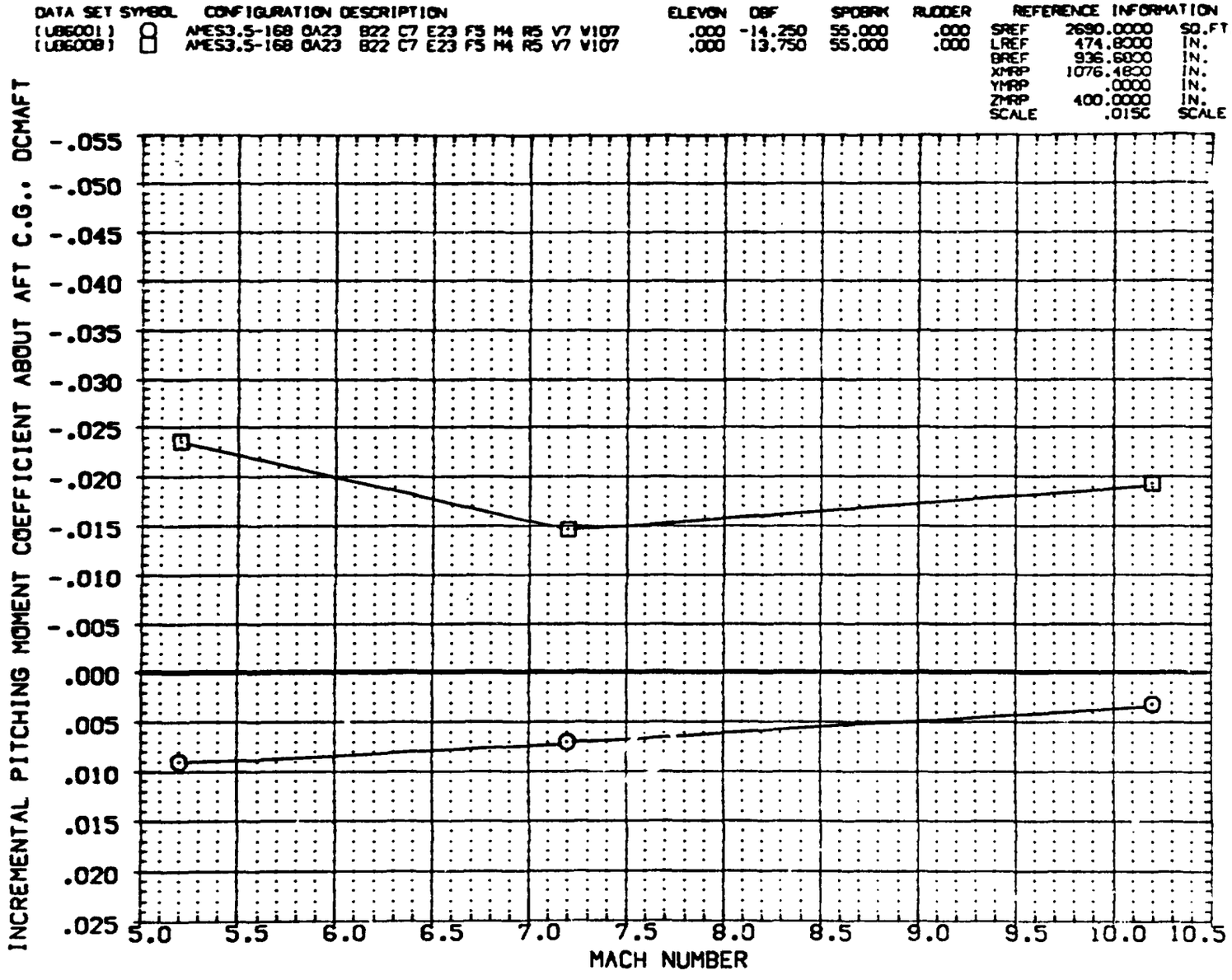


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86001)	AMES3.5-168 0A[illegible] B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000
(U86008)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

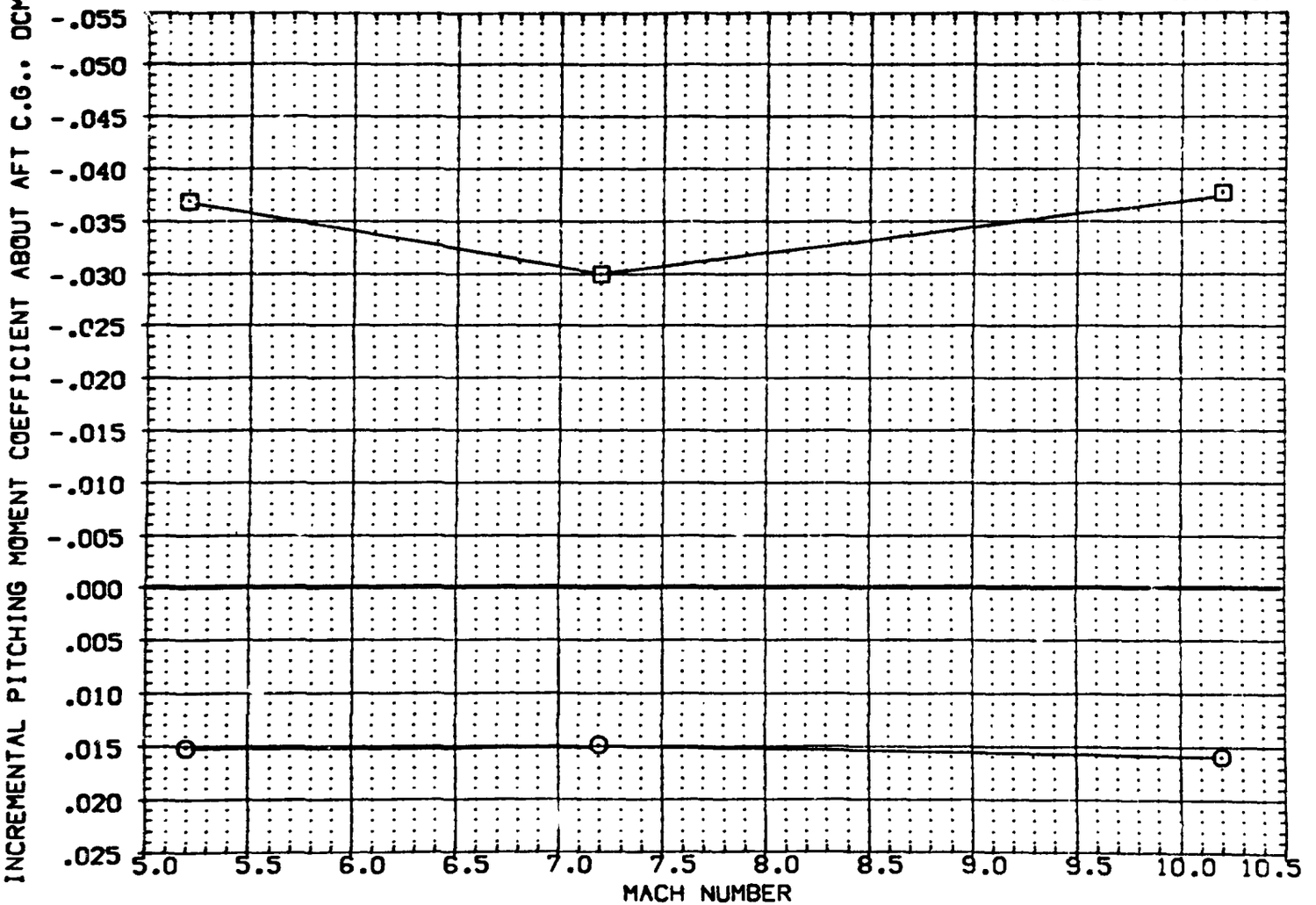


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86001)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000
(U86008)		AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6600	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

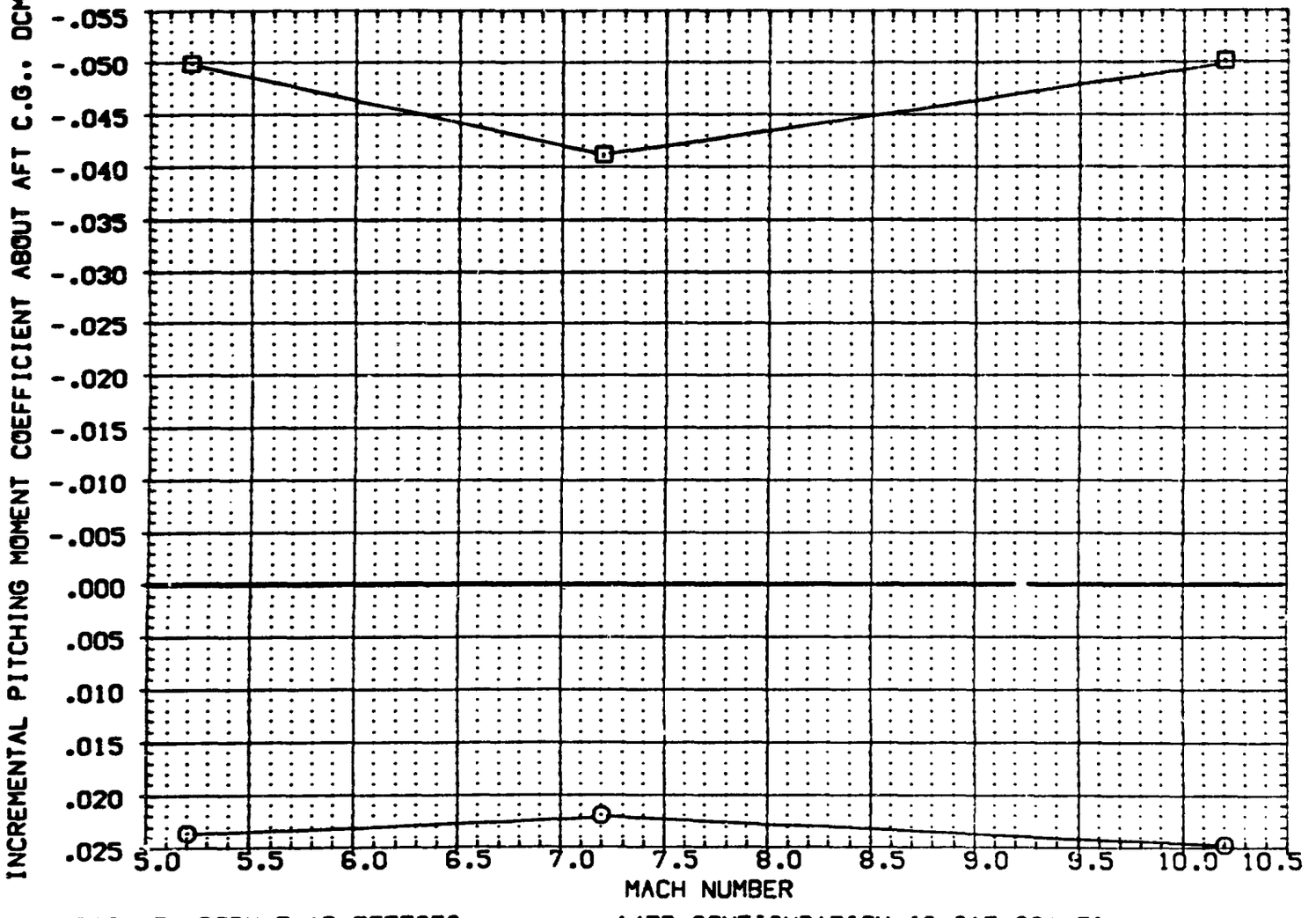


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D)ALPHA = 40.00

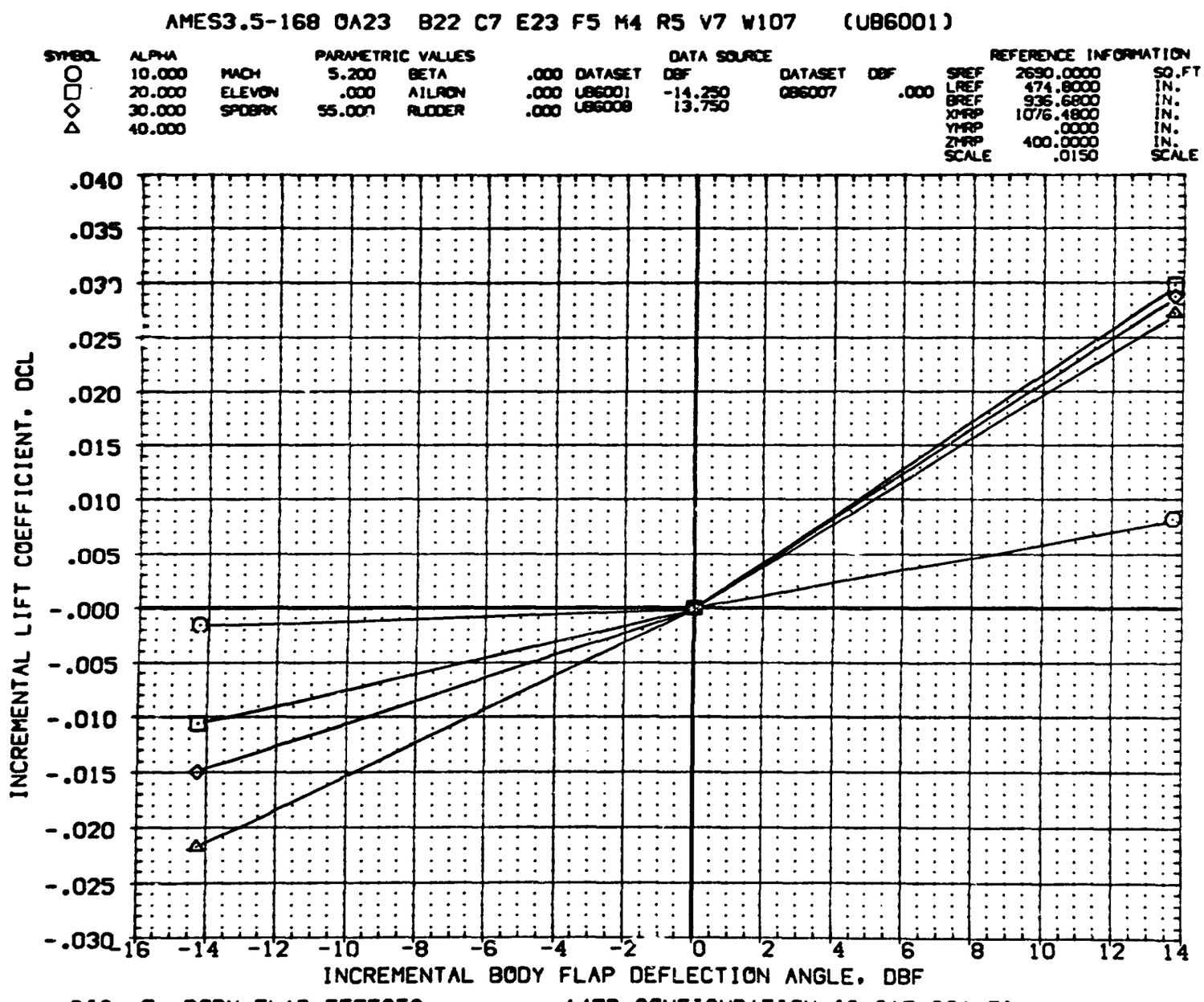


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	7.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250	UB6007	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6008	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

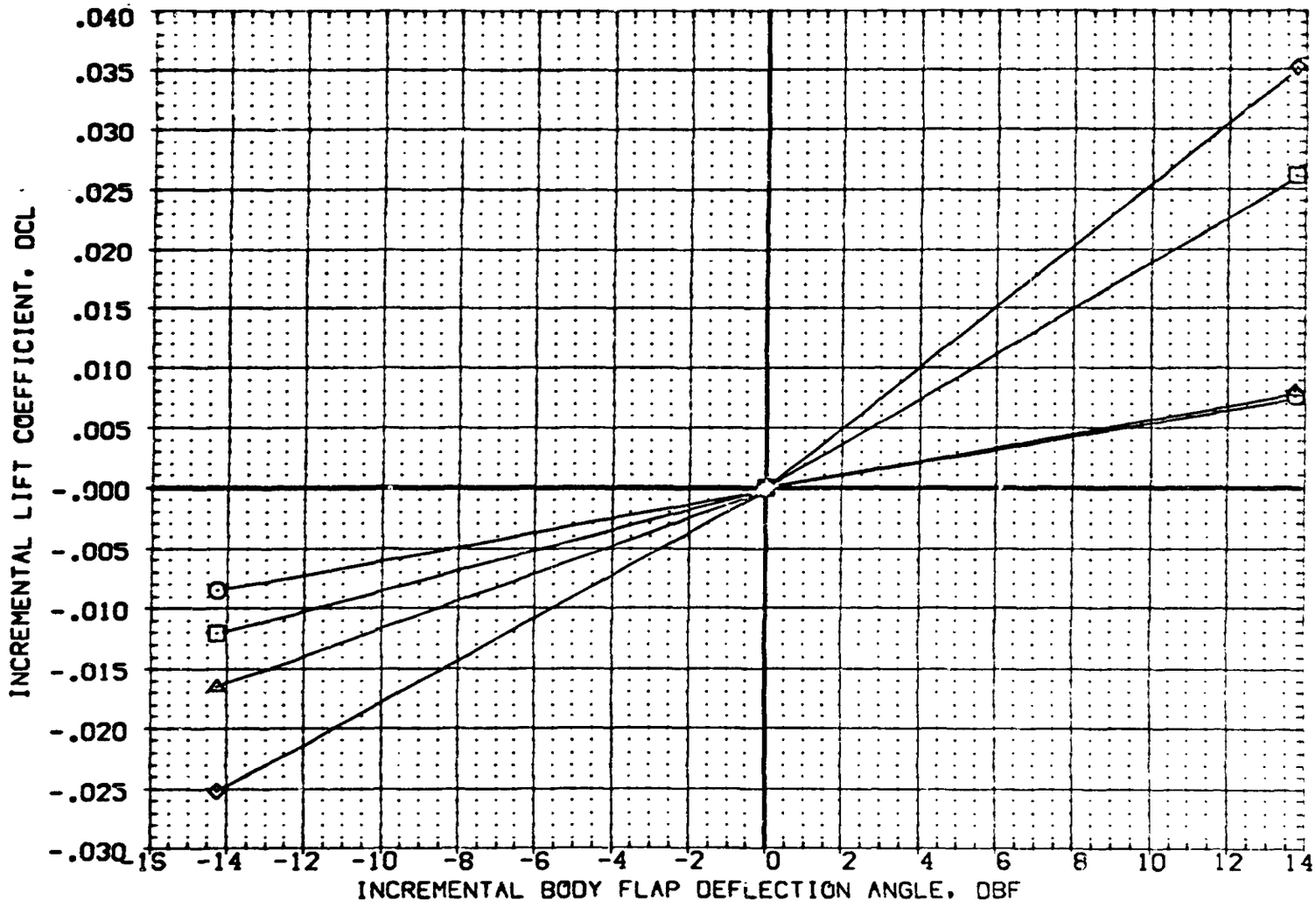


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	10.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250	086007	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6008	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

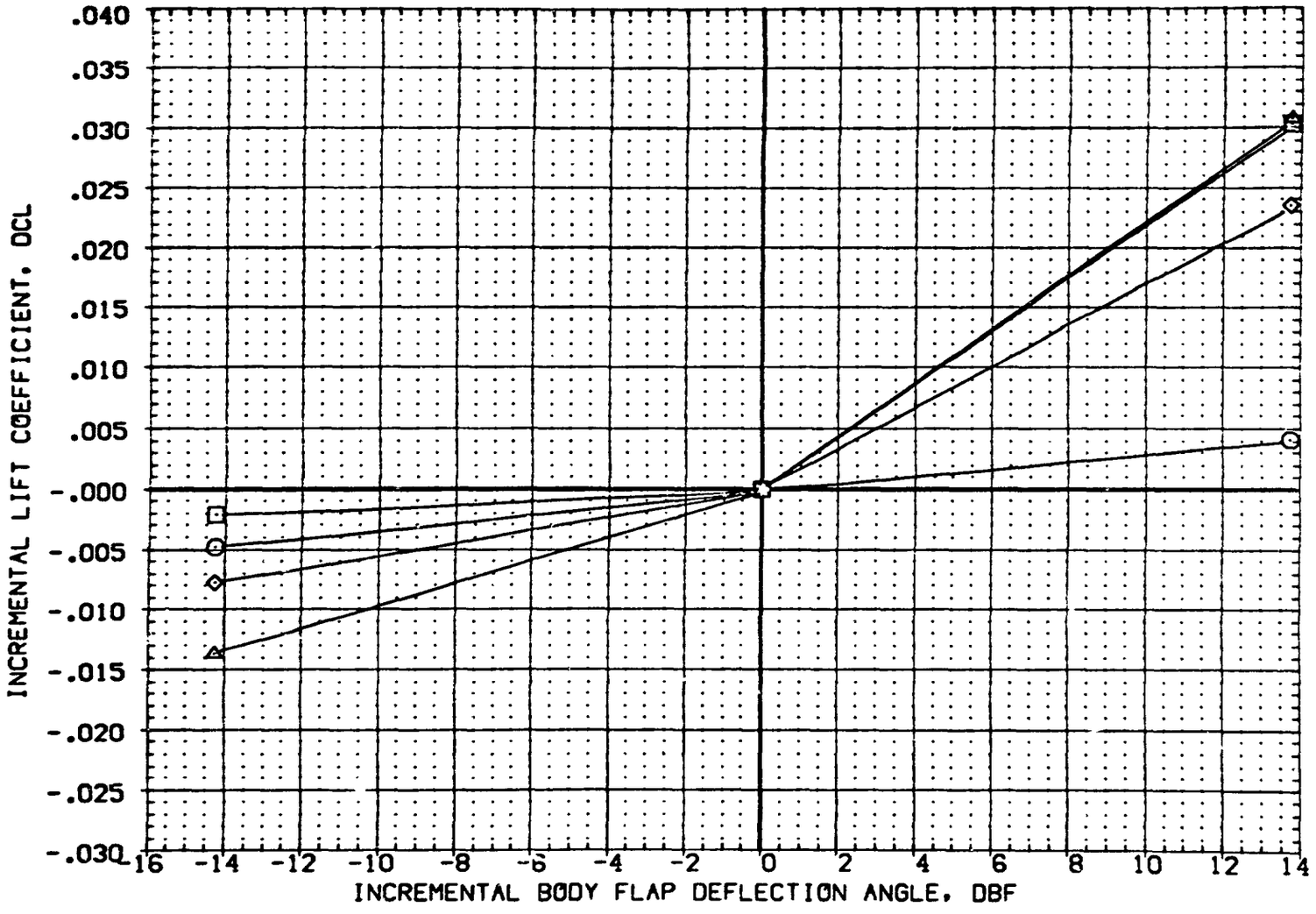


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	5.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250	UB6007	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6008	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

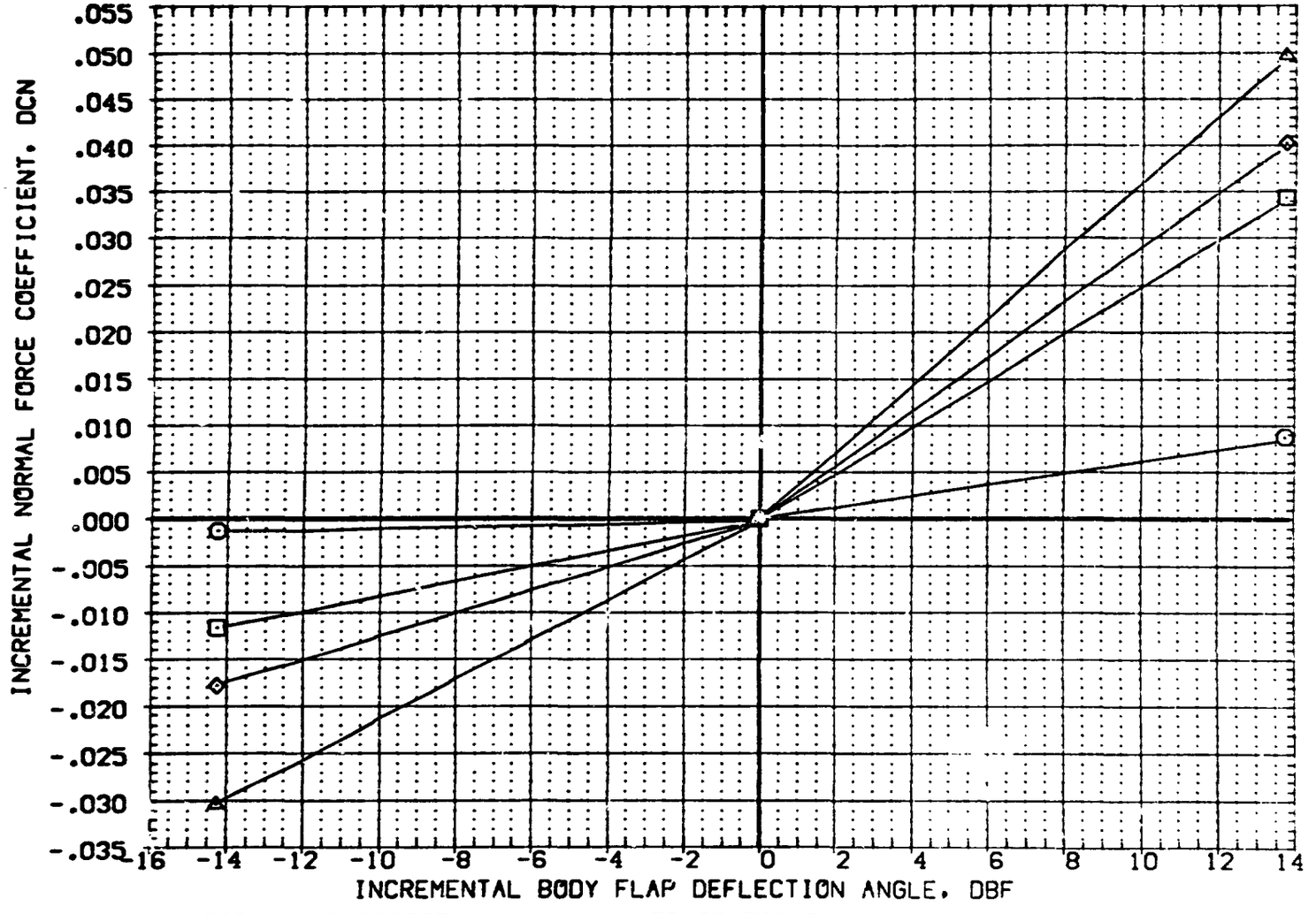


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

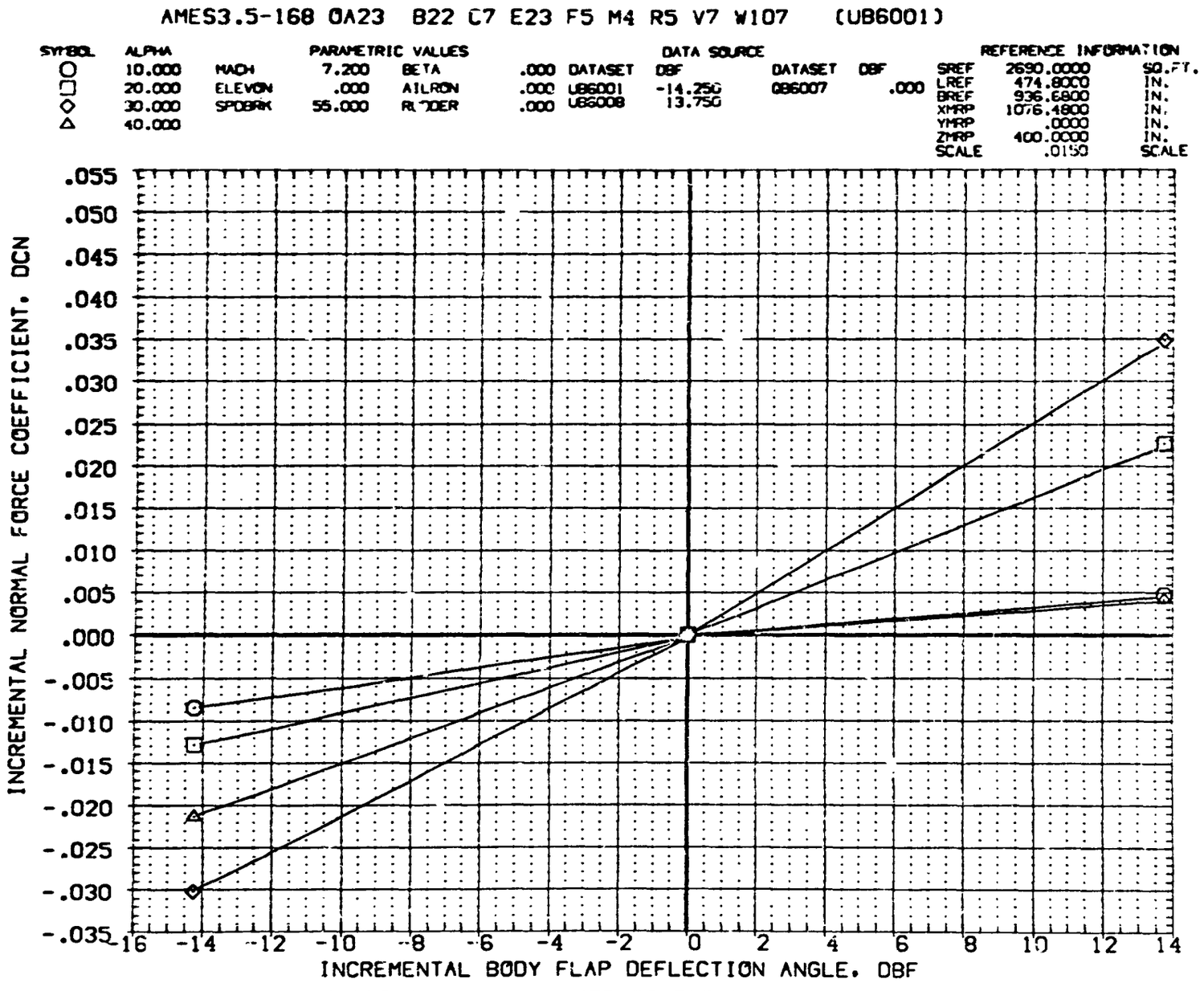


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

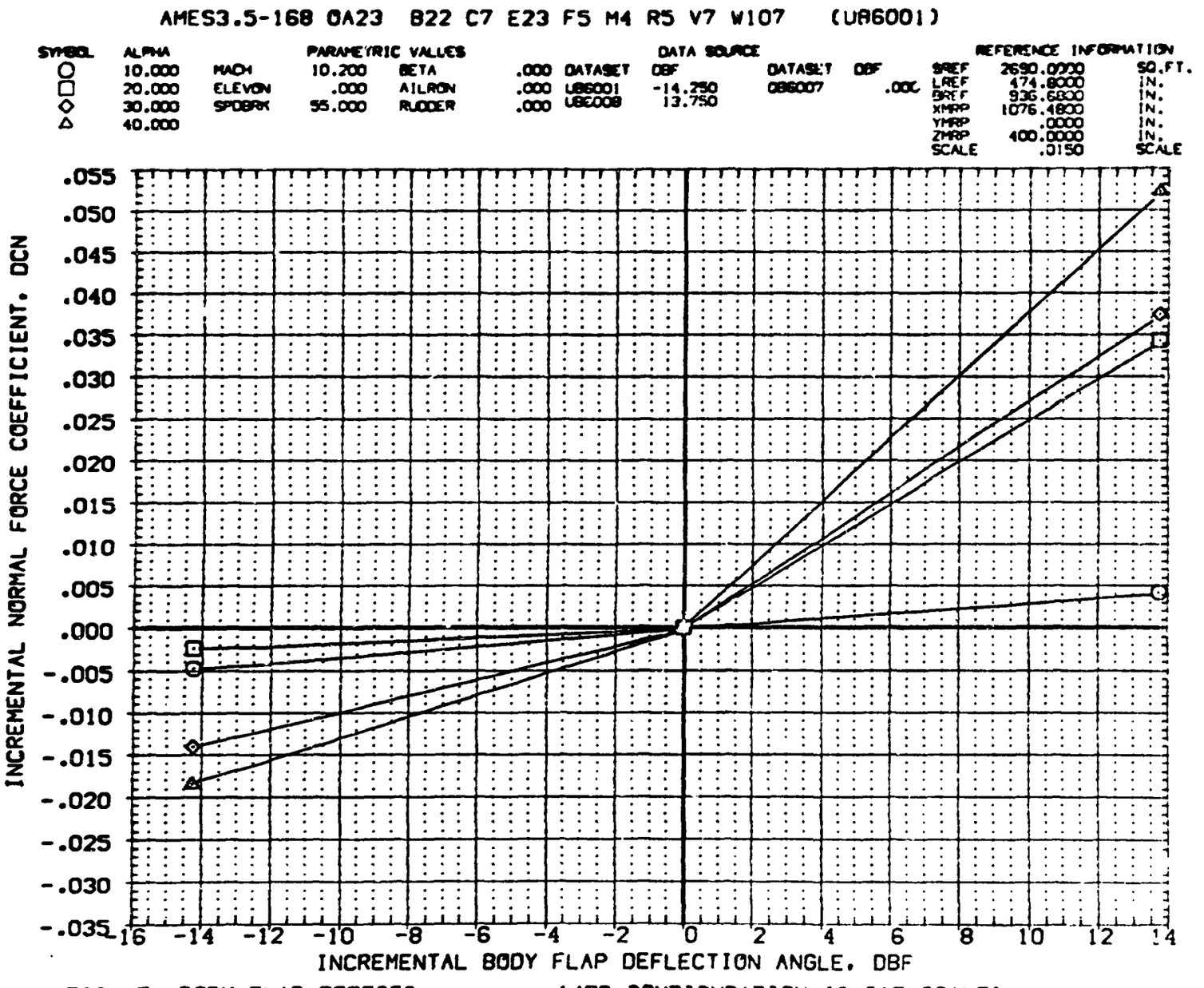


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

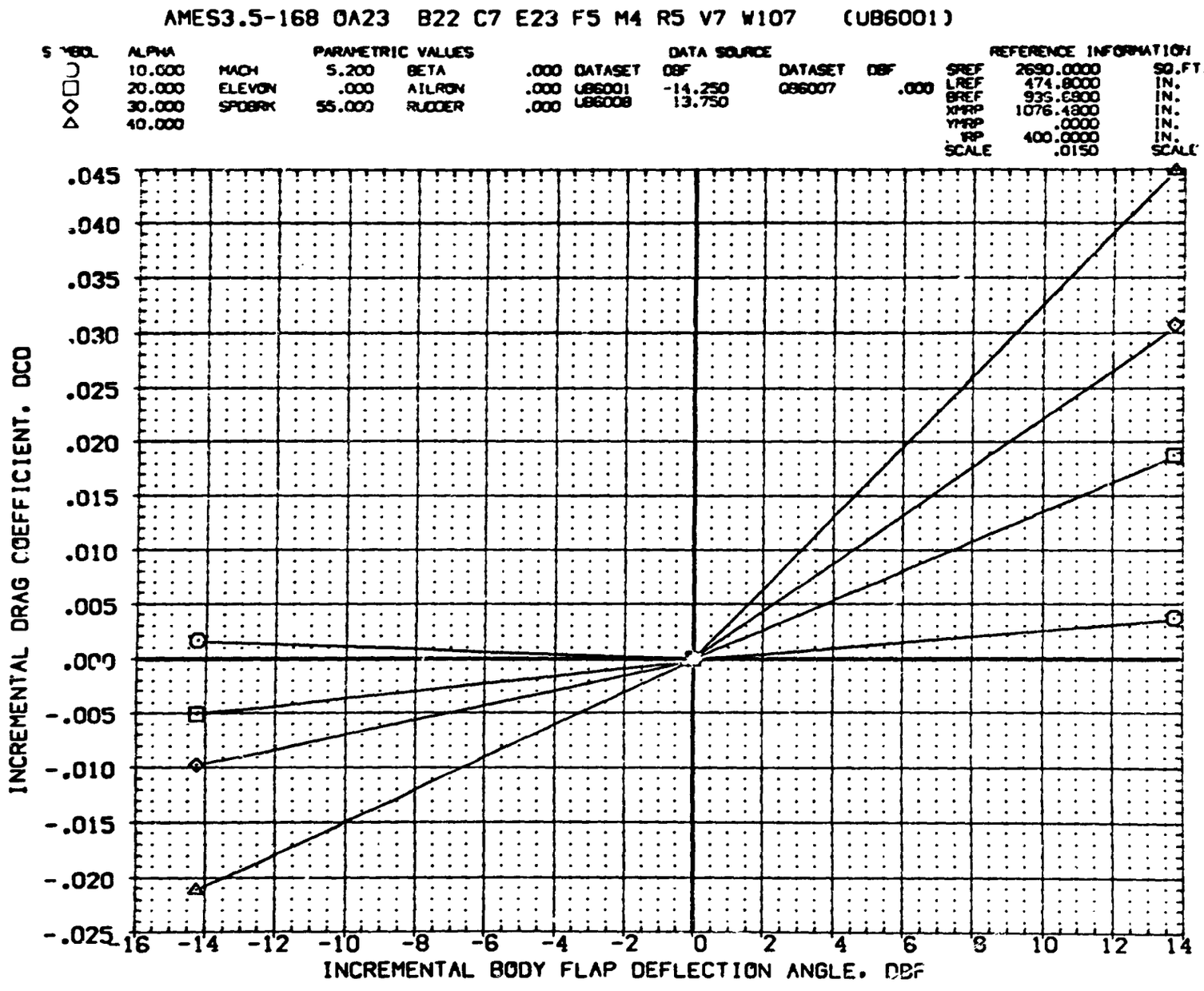


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	7.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250	UB6007	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6008	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

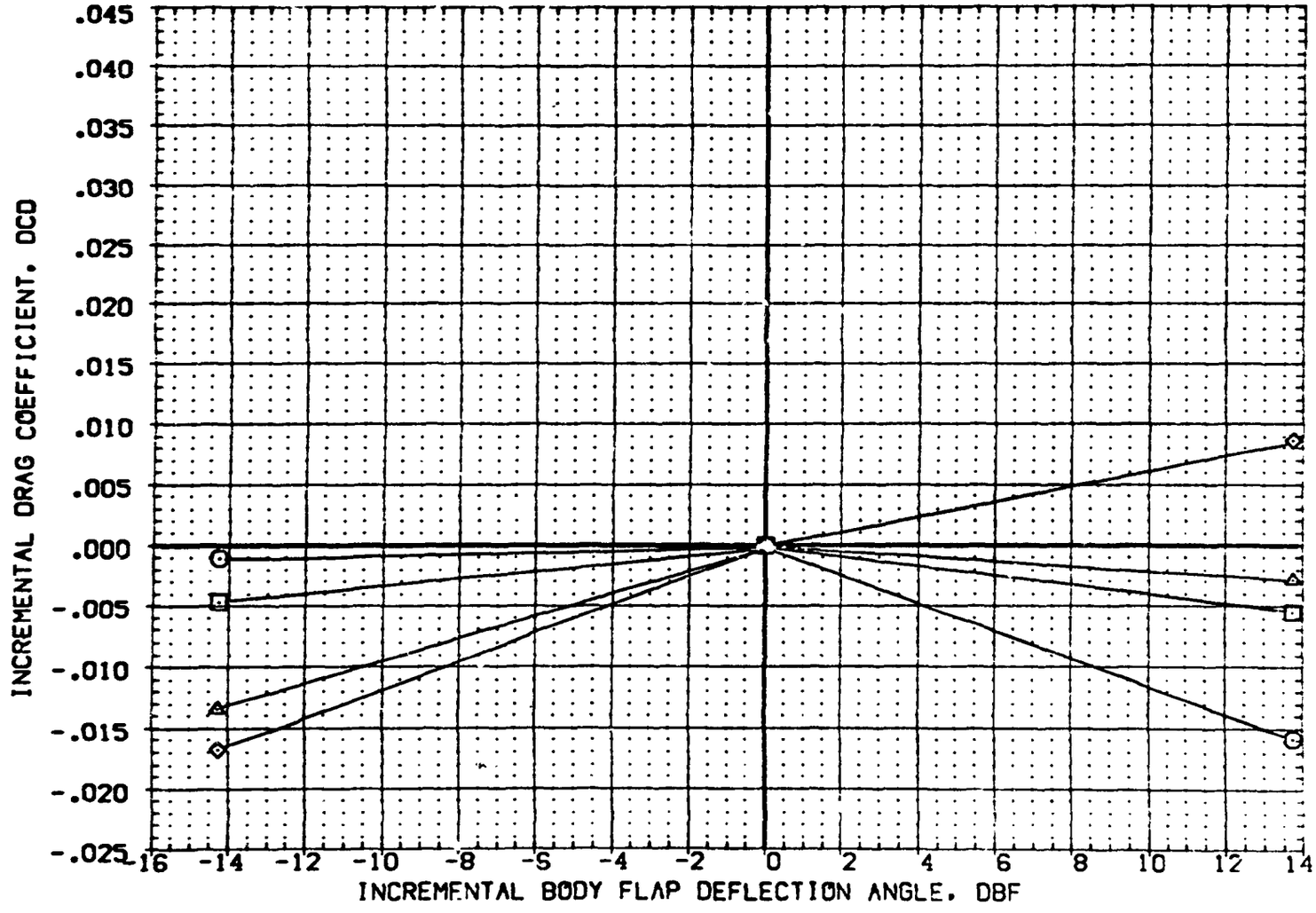


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE					REFERENCE INFORMATION		
○	10.000	MACH	10.200	BETA	.000	DATASET	DBF	DATASET	DBF		SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRUN	.000	UB6001	-14.250	UB6007		.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6008	13.750				BREF	936.6800	IN.
△	40.000										XMRP	1076.4800	IN.
											YMRP	.0000	IN.
											ZMRP	400.0000	IN.
											SCALE	.0150	SCALE

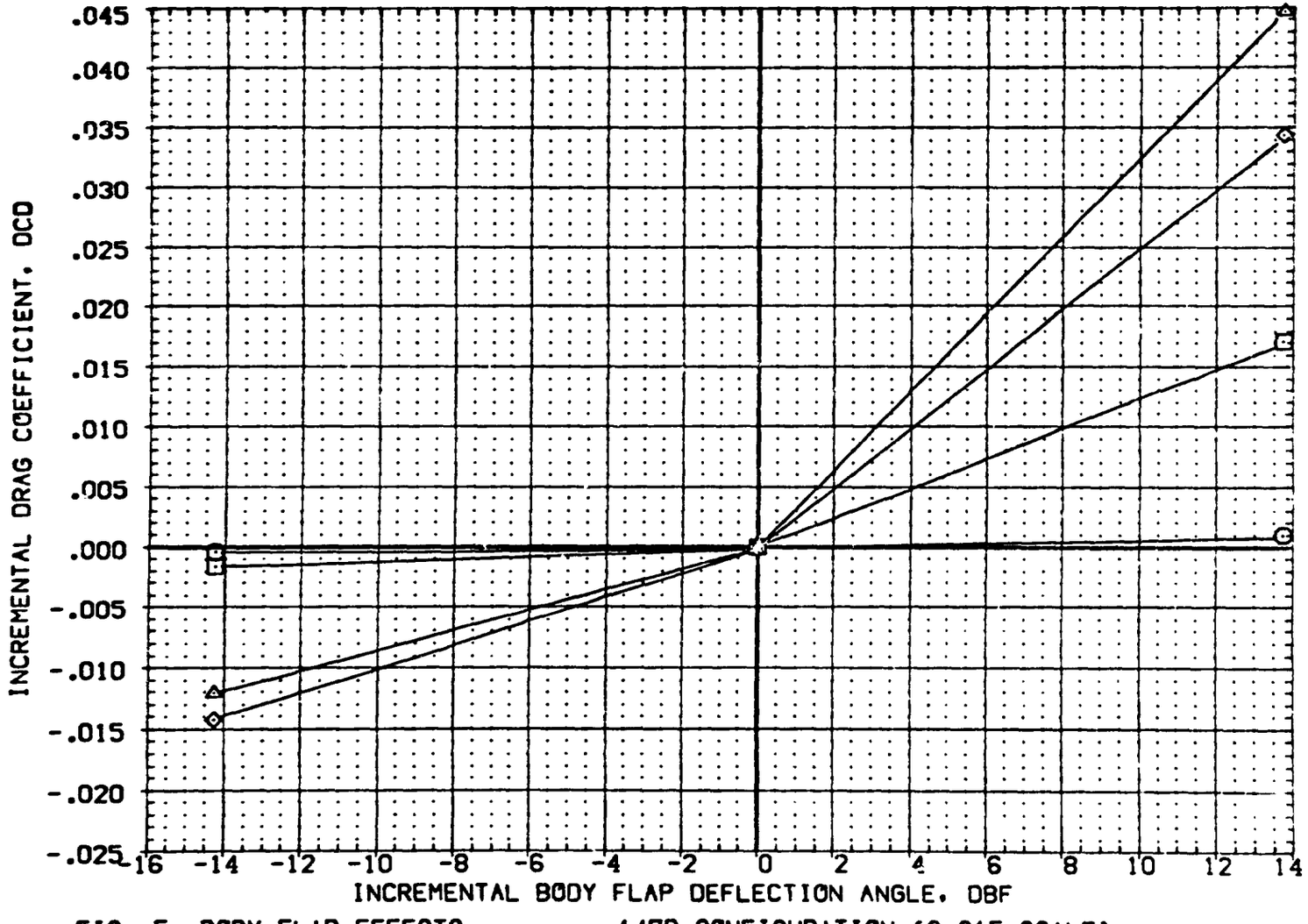


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	5.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250	QB6007	.000	LREF	474.6000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6008	13.750			BREF	936.8800	IN.
△	40.000									XMRP	1076.4000	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

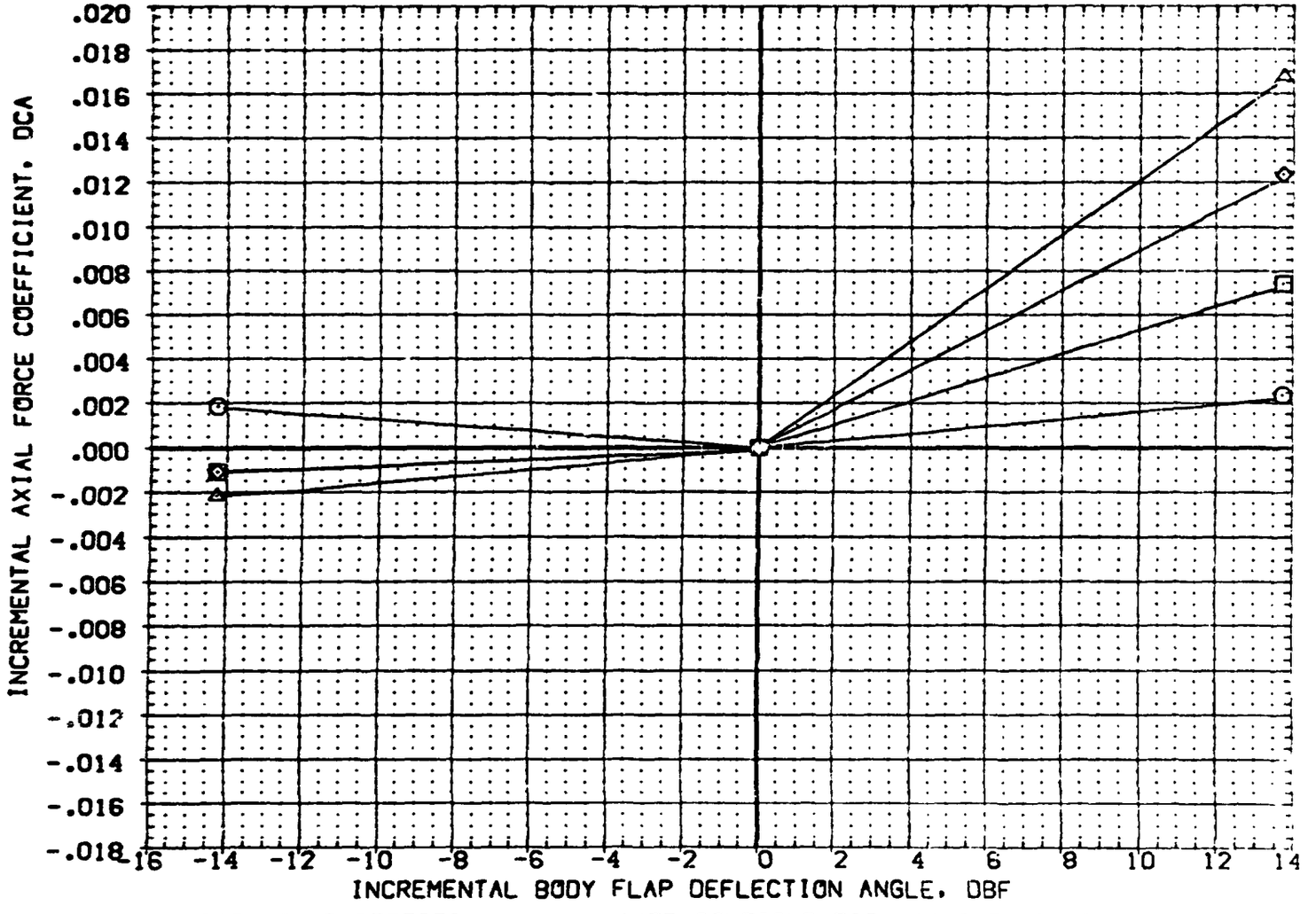


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	7.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250	UB6007	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6008	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

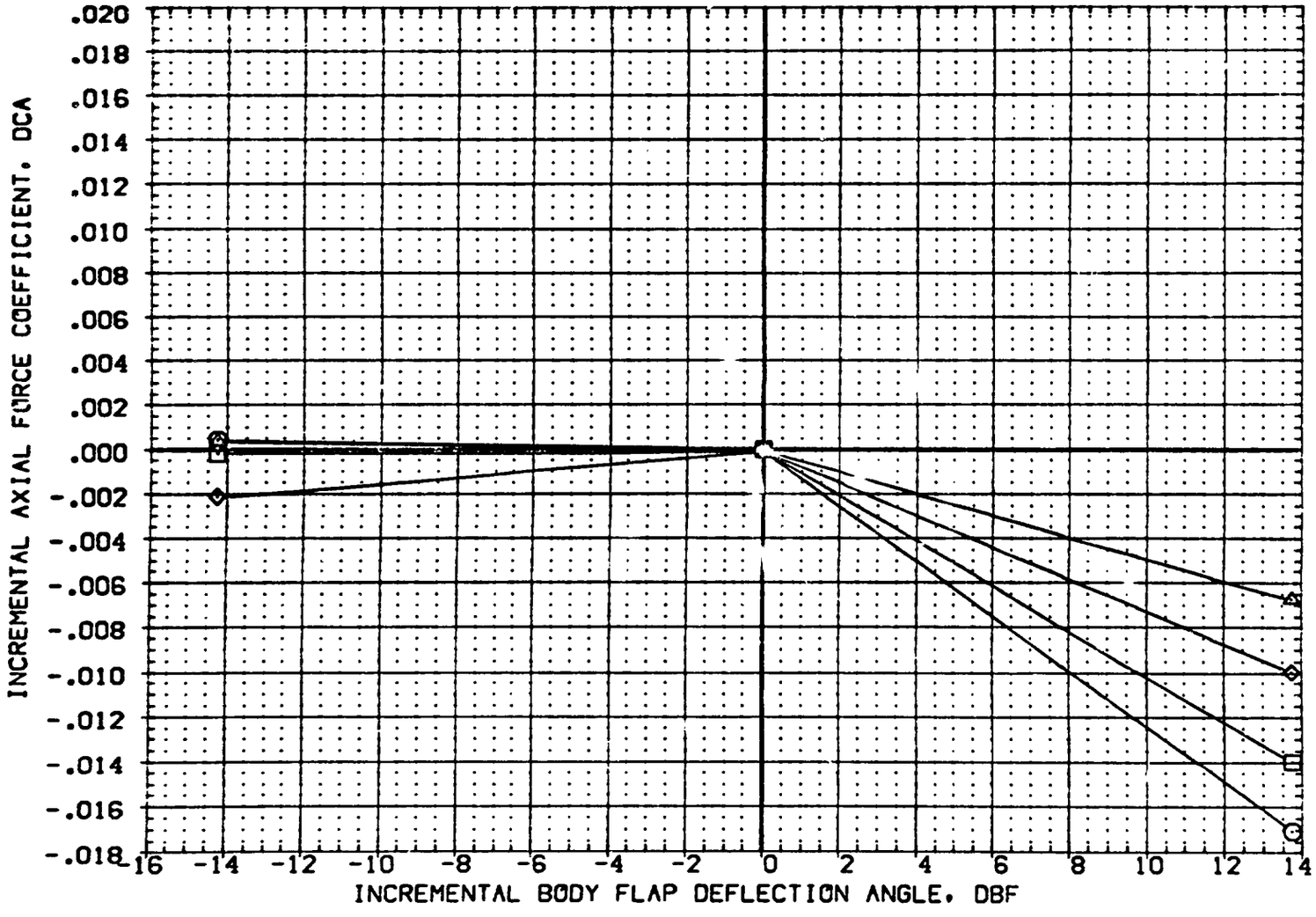


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	10.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250	UB600[illegible]	.000	LREF	474.6300	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6003	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

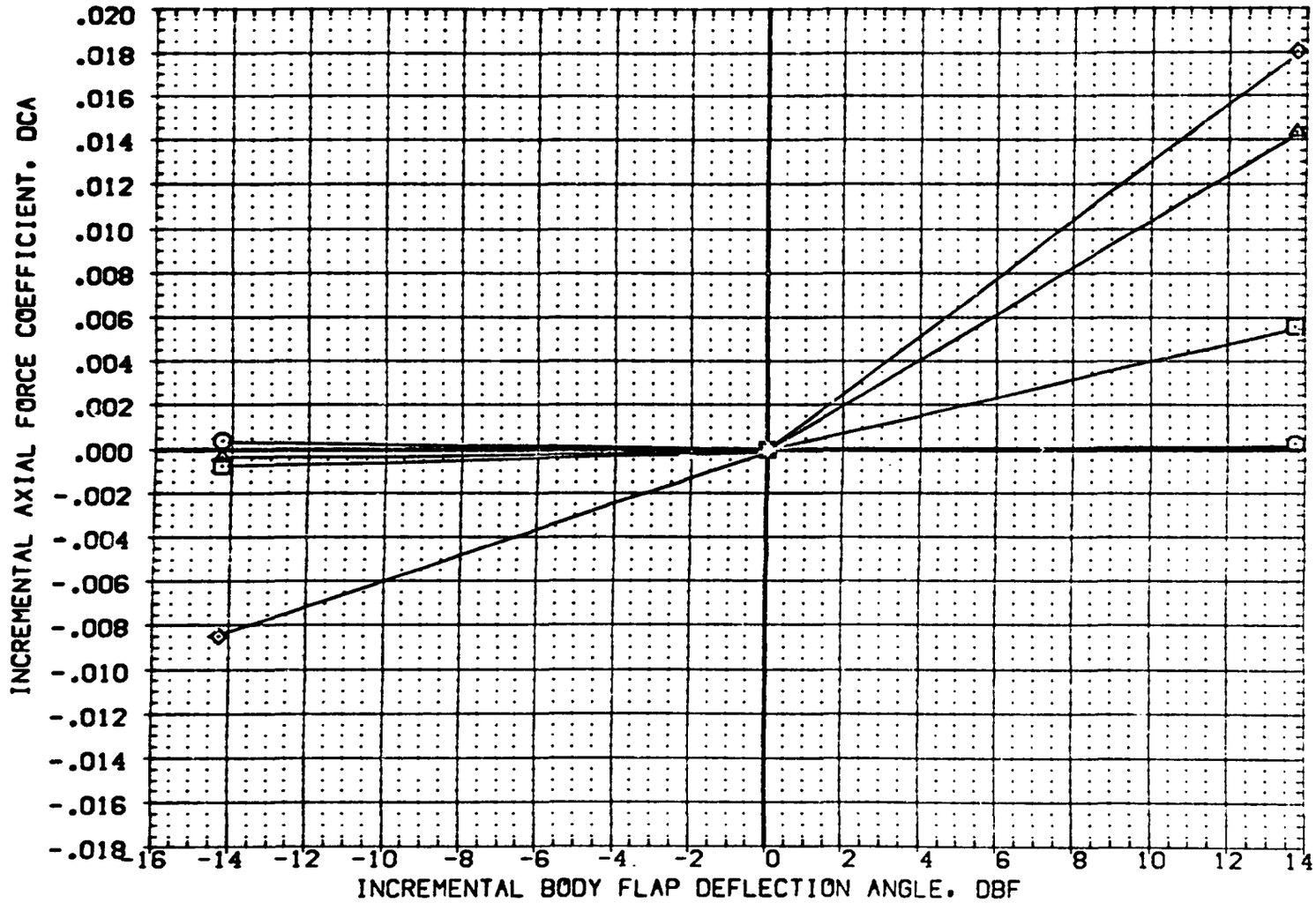


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

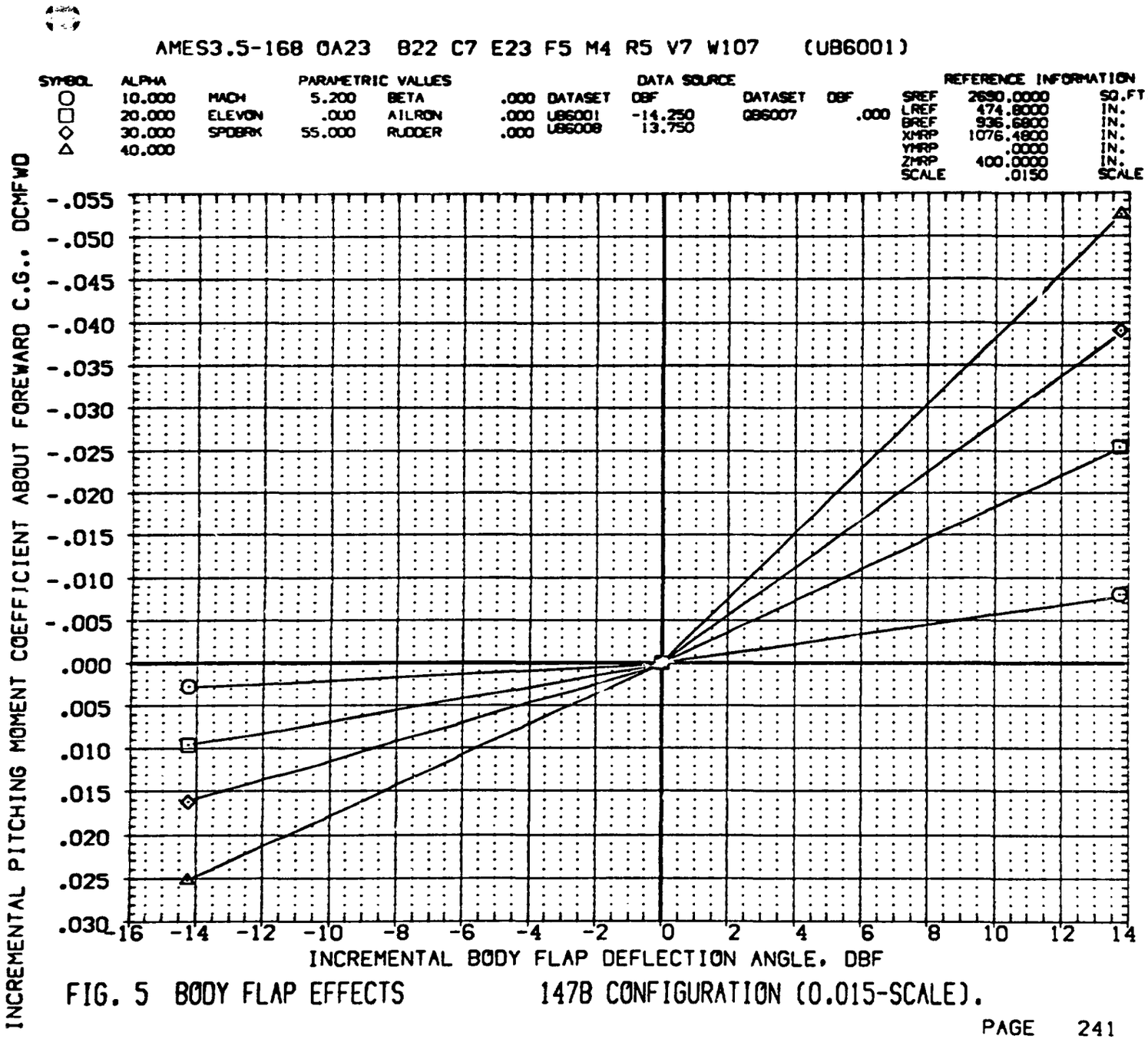


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

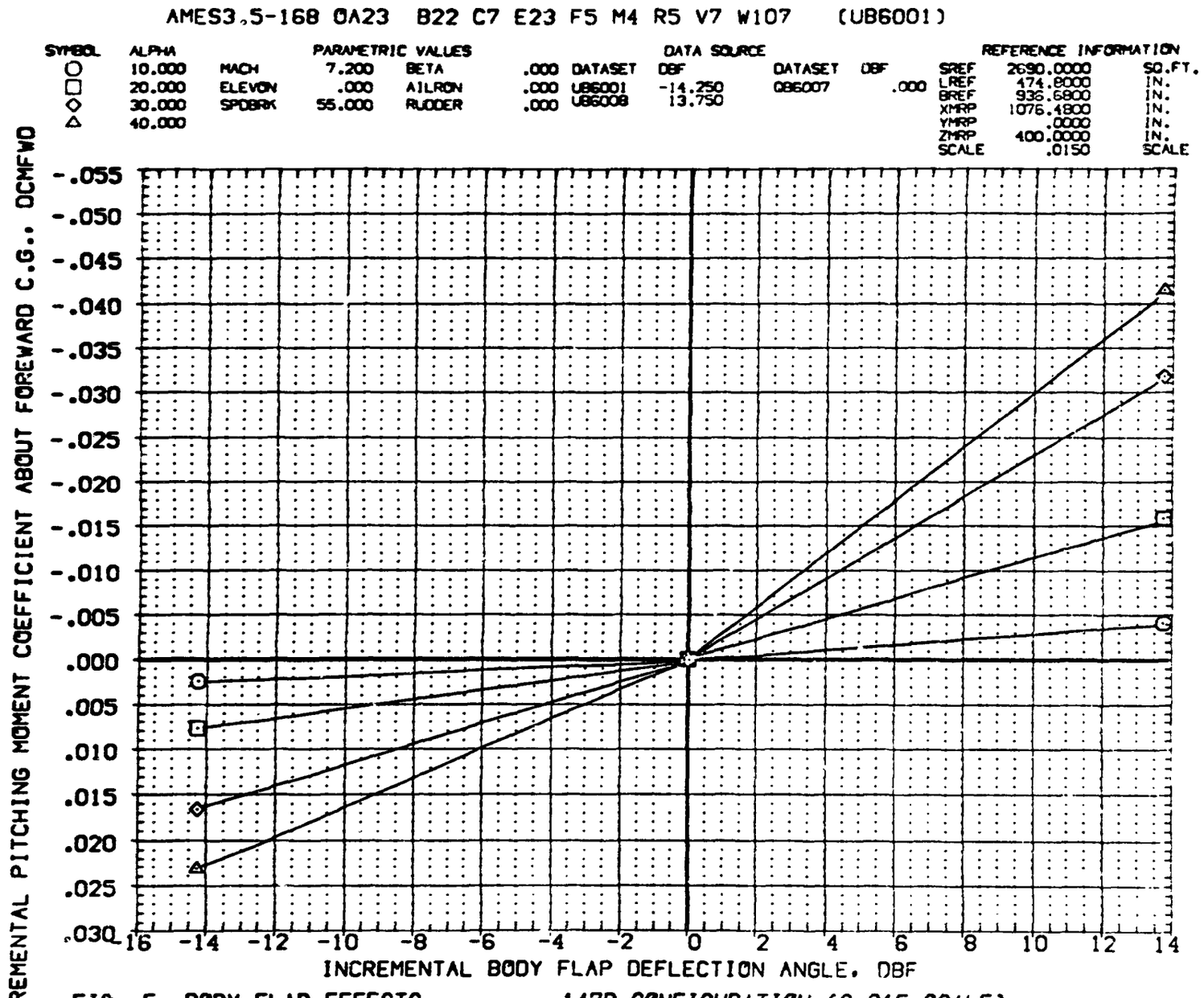


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

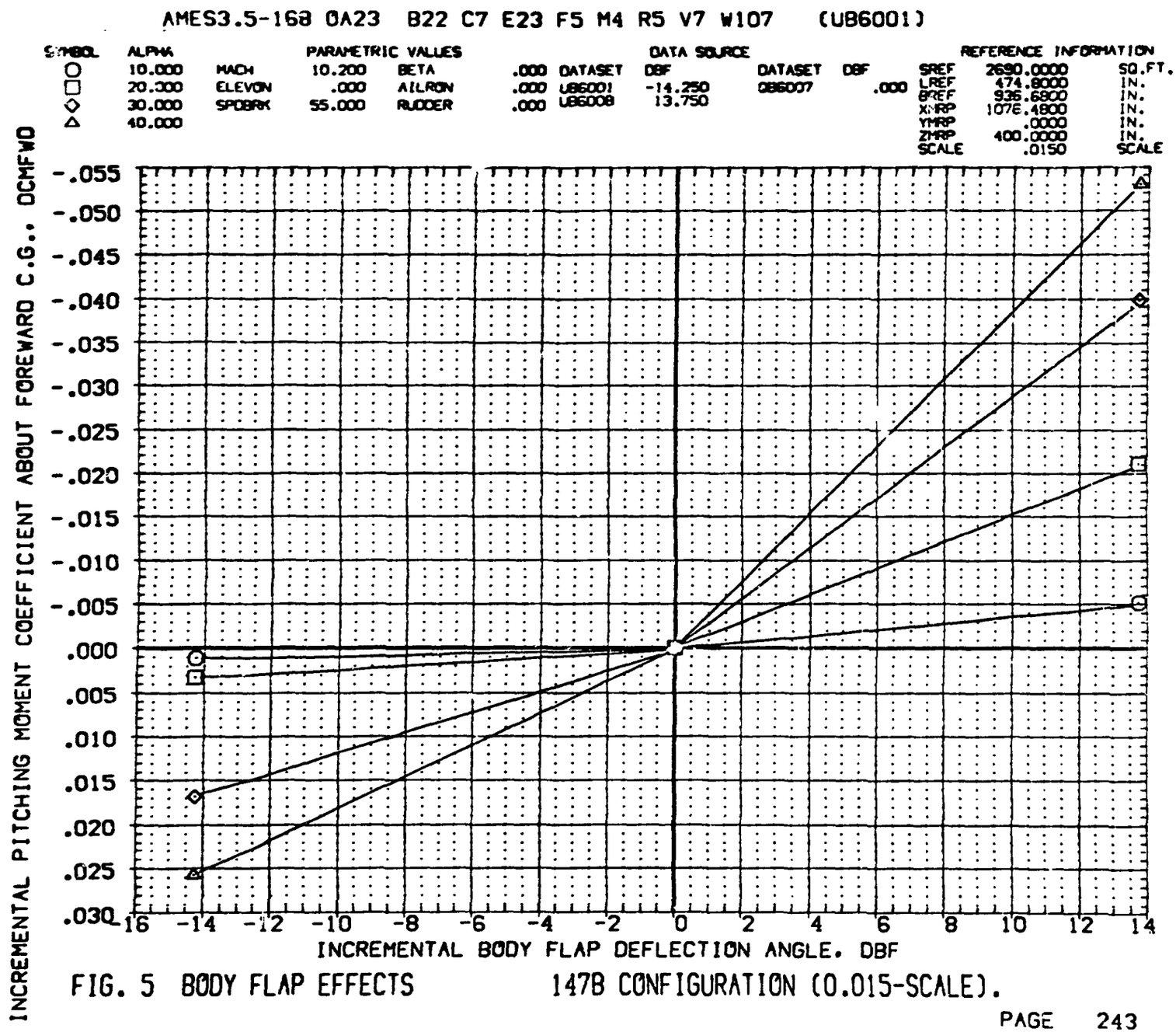


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

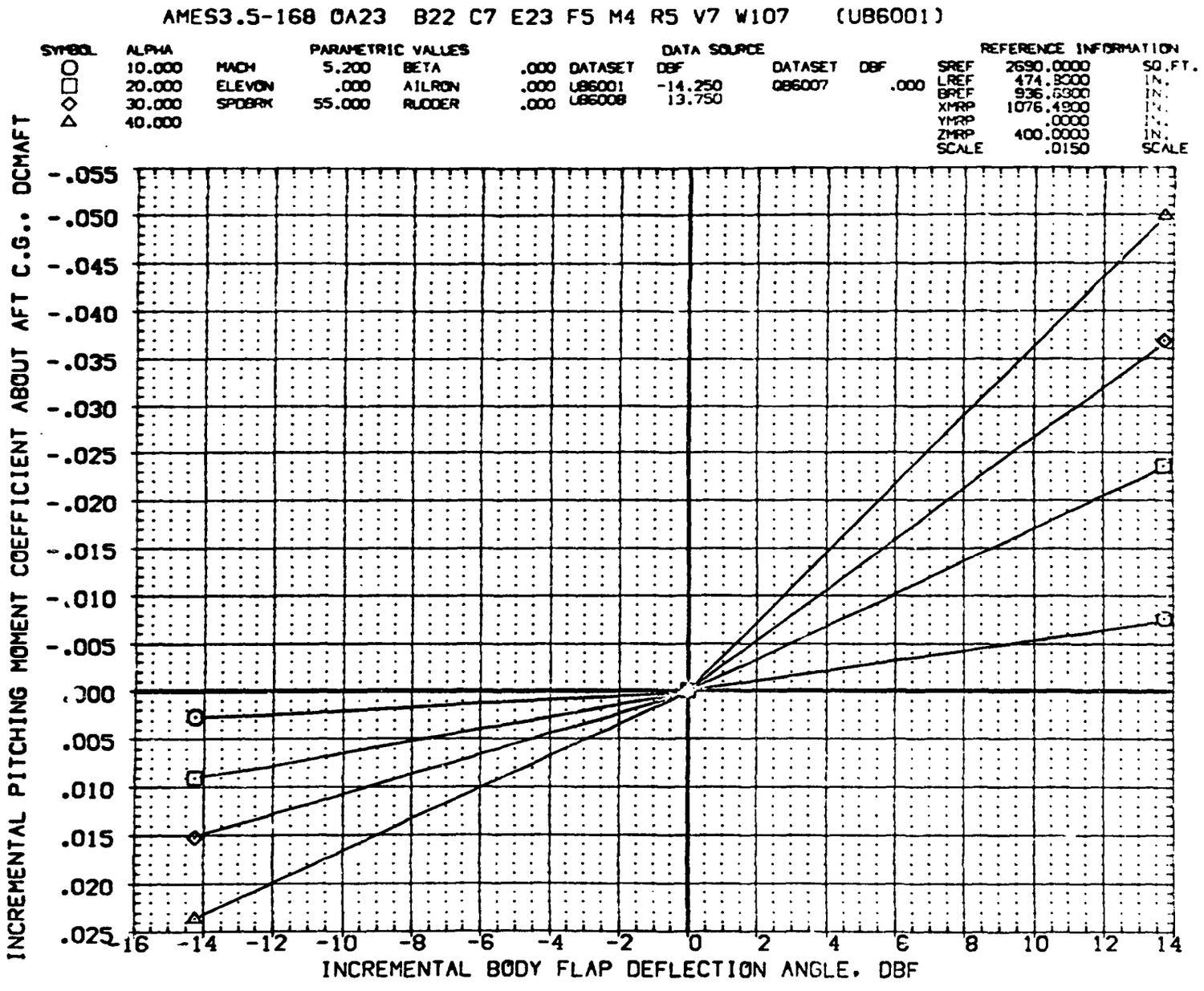


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

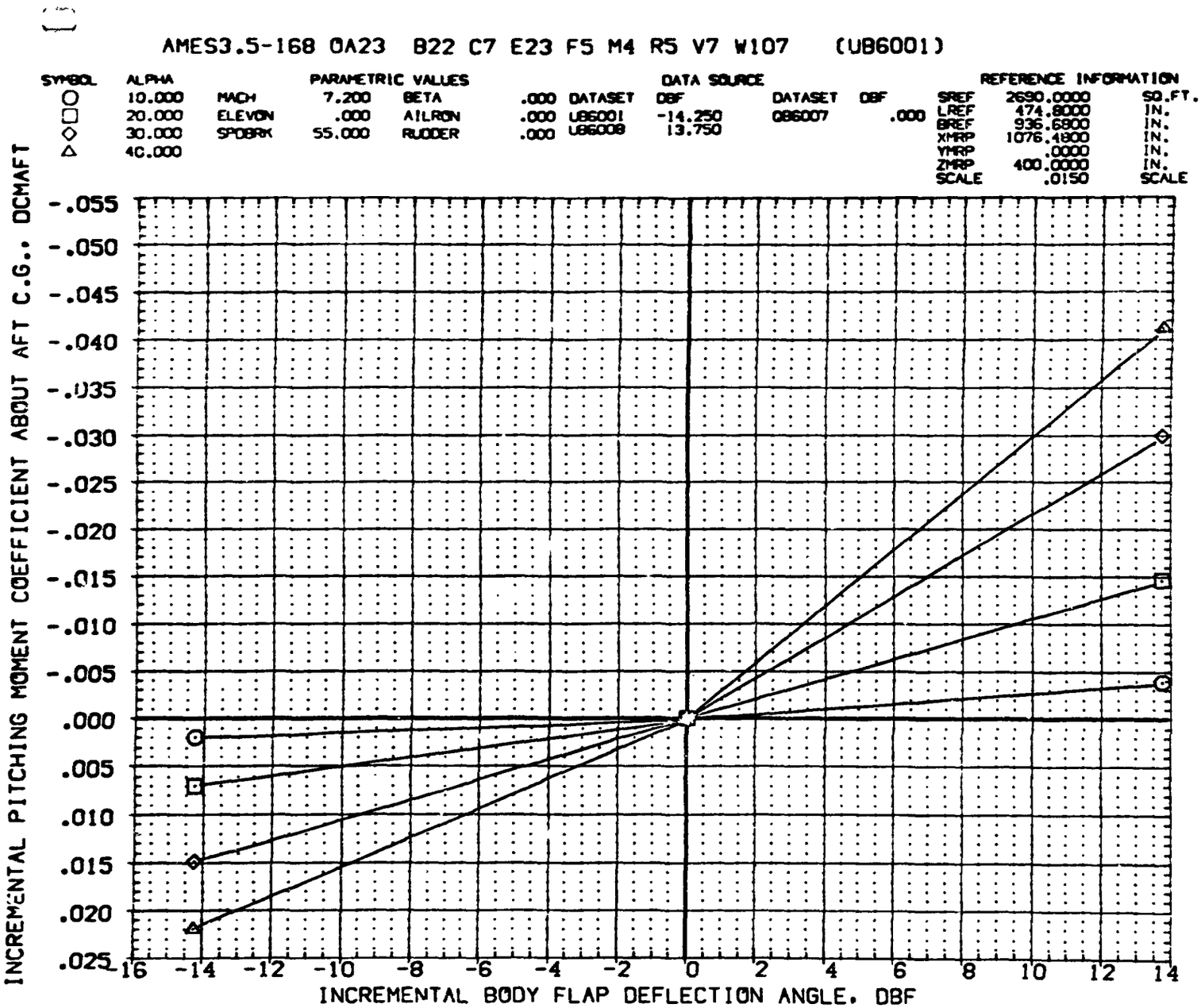


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

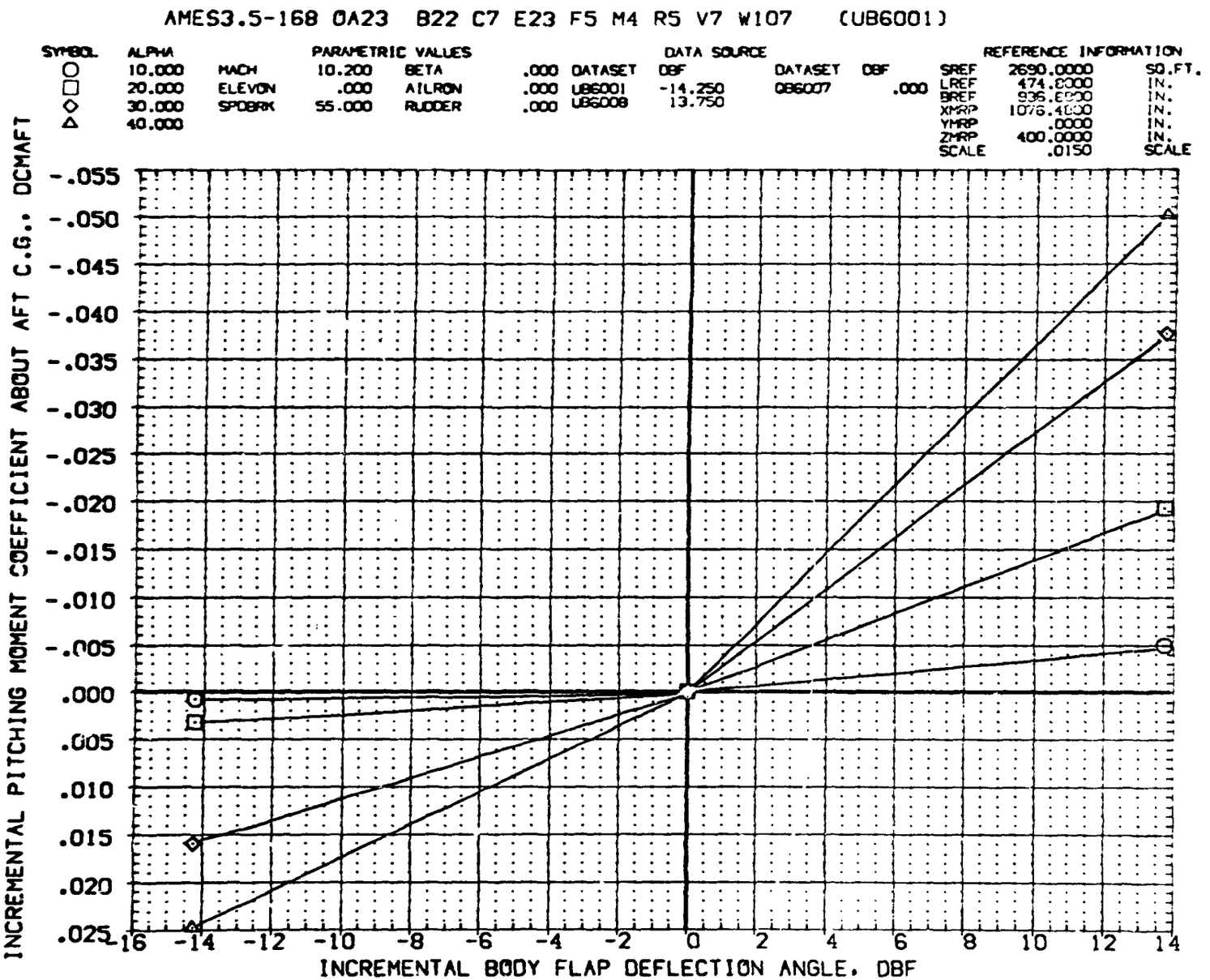


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPDBRK	RUDDER
(B96002)	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	5.000	-14.250	55.000	.000
(B96001)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

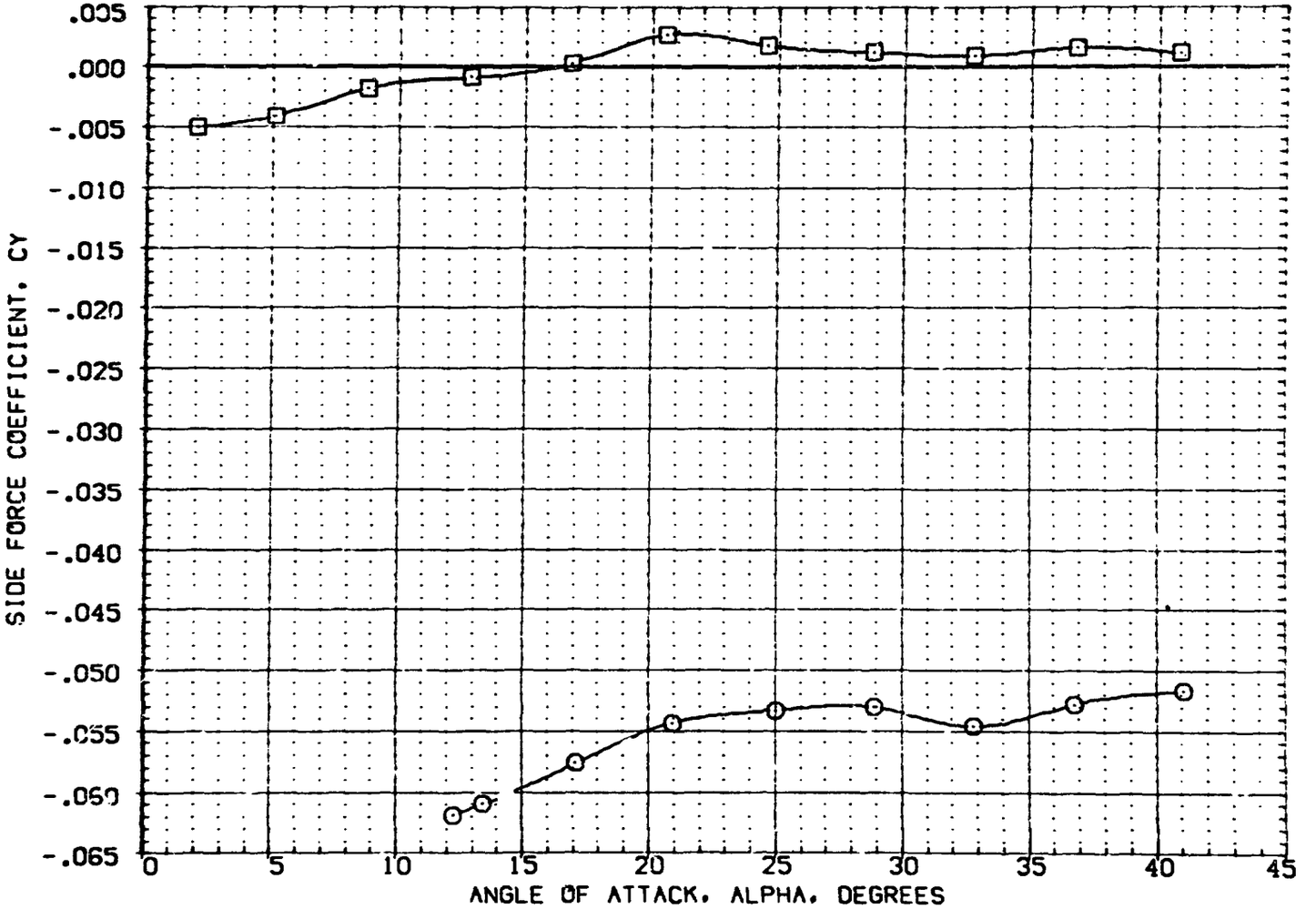


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPDBRK	RUDDER
(F96002)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	5.000	-14.250	55.000	.000
(666001)	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8300	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

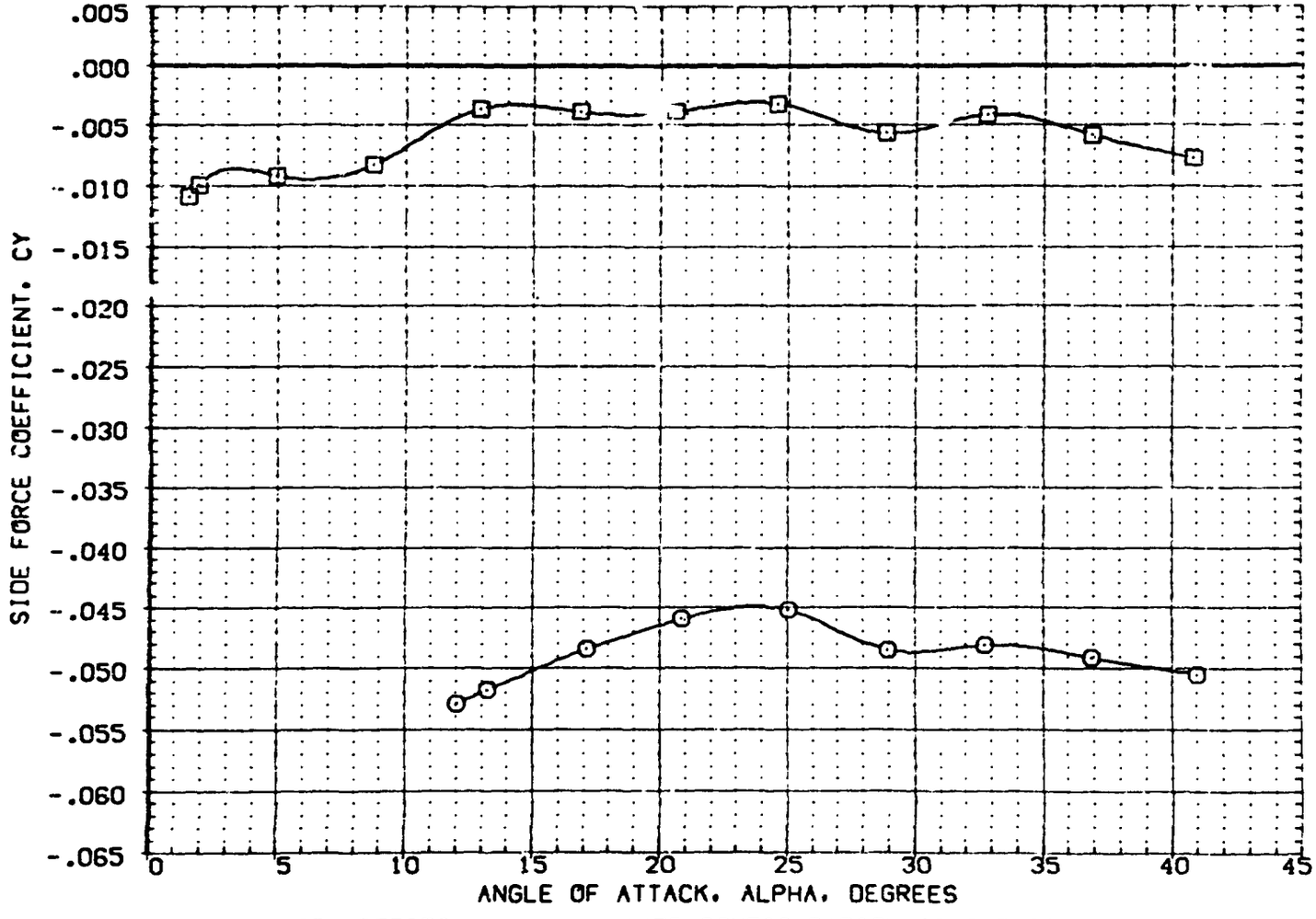


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPDBRK	RUDDER
[illegible]	◇	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	5.000	-14.250	55.000	.000
[illegible]	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1075.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

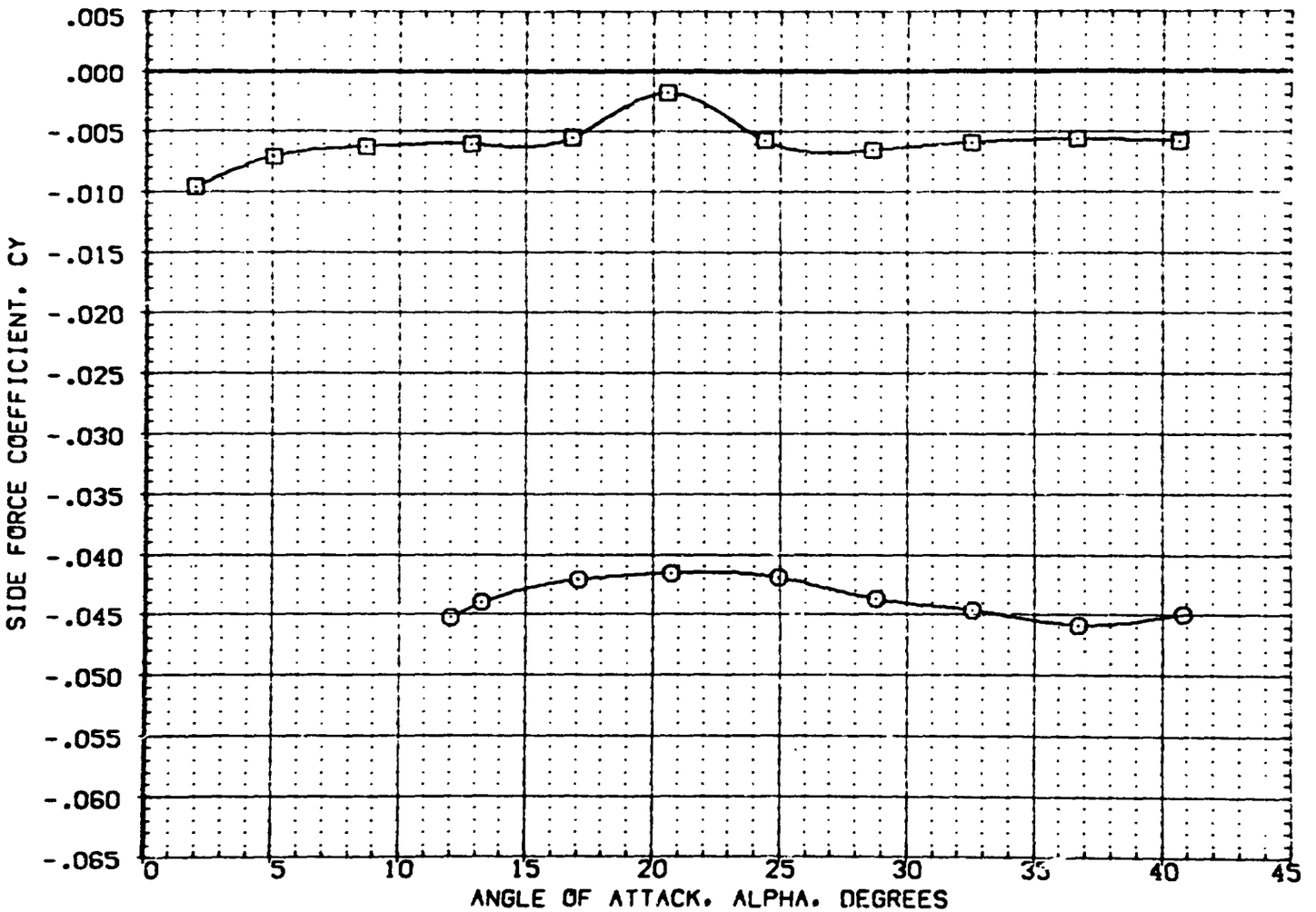


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER
(#36002)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	5.000	-14.250	55.000	.000
(#36001)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.1800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

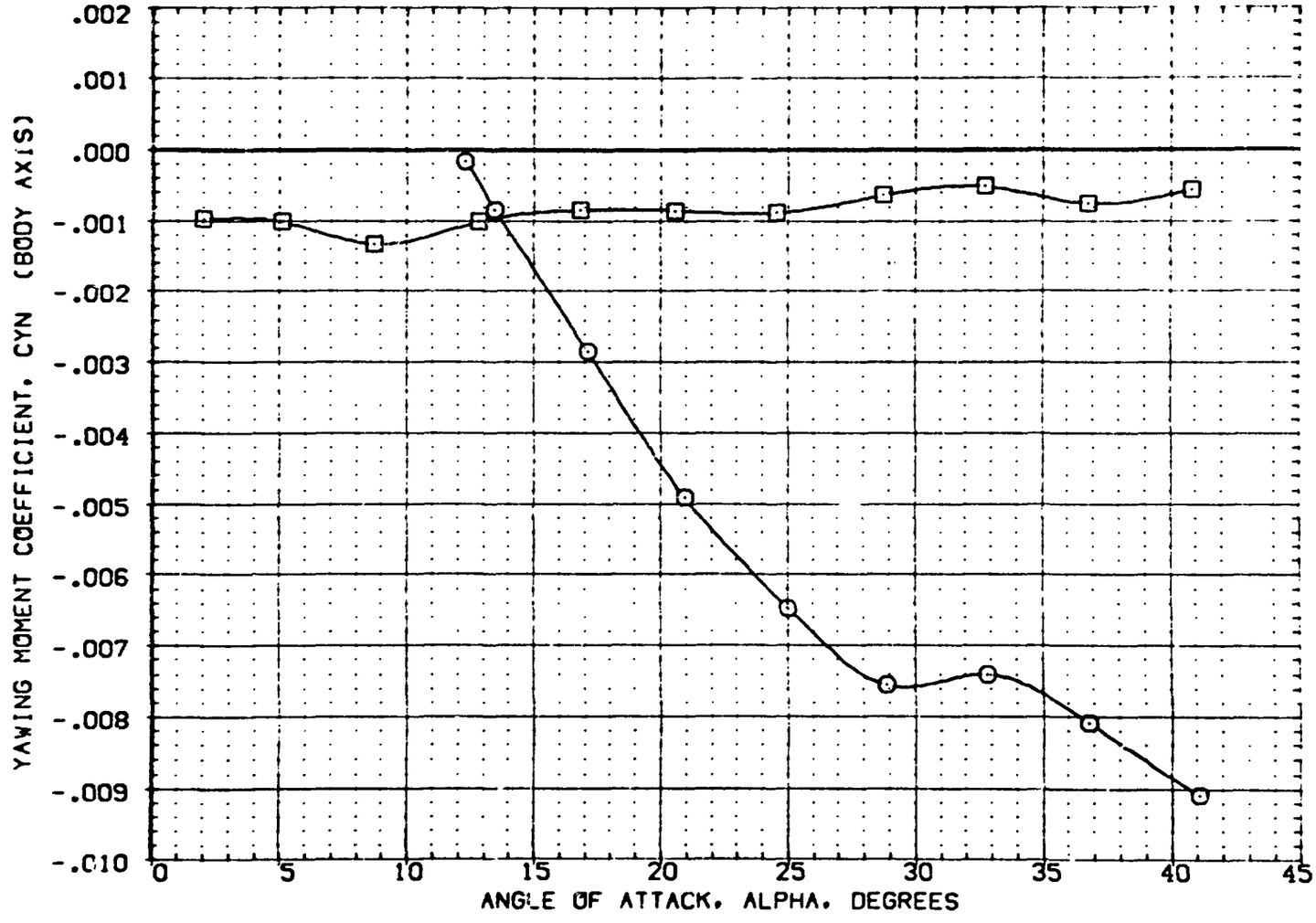


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPDBRK	RUDDER
(966002)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	5.000	-14.250	55.000	.000
(96600)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

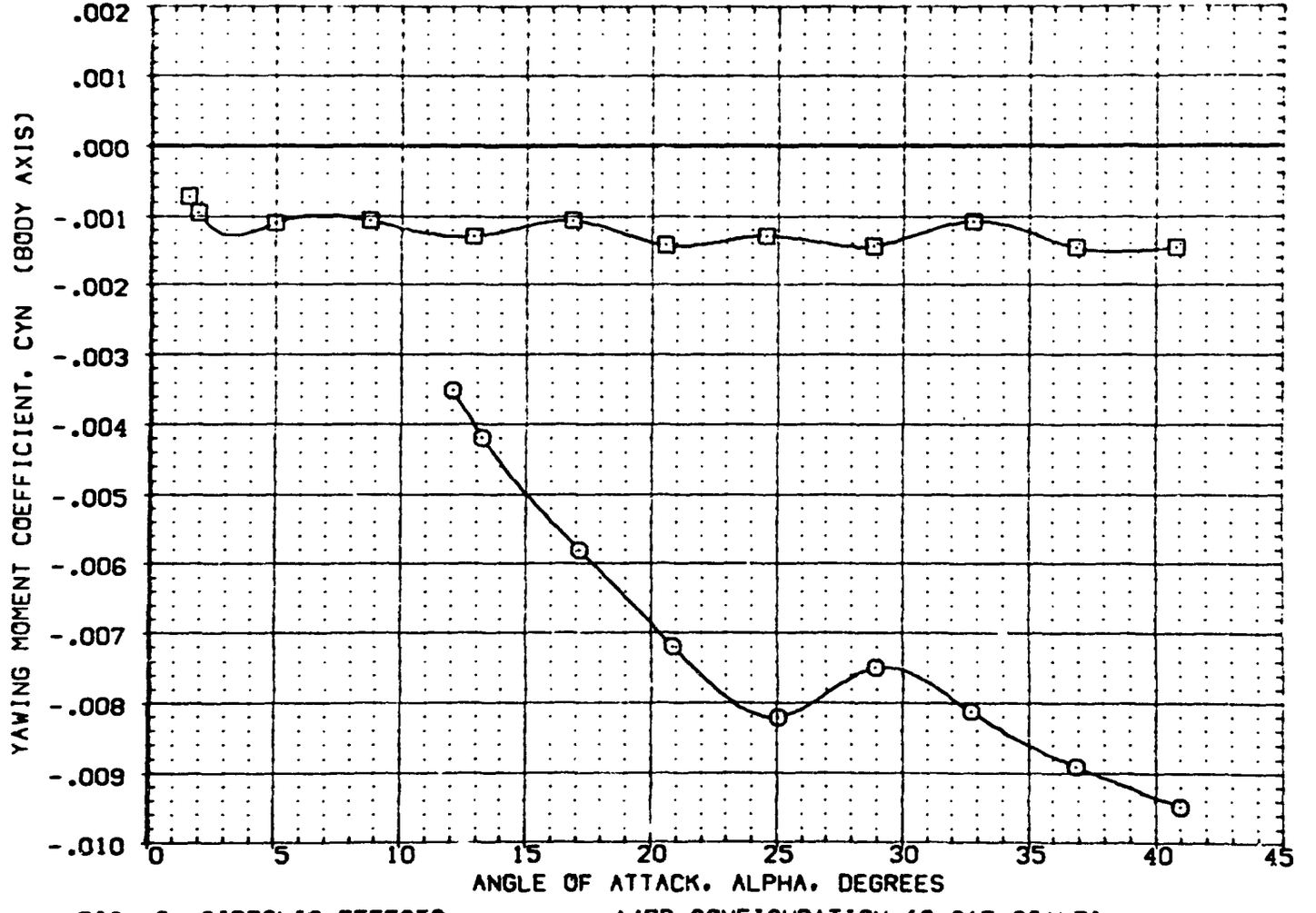


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER
(BR6002)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	5.000	-14.250	55.000	.000
(BR6001)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

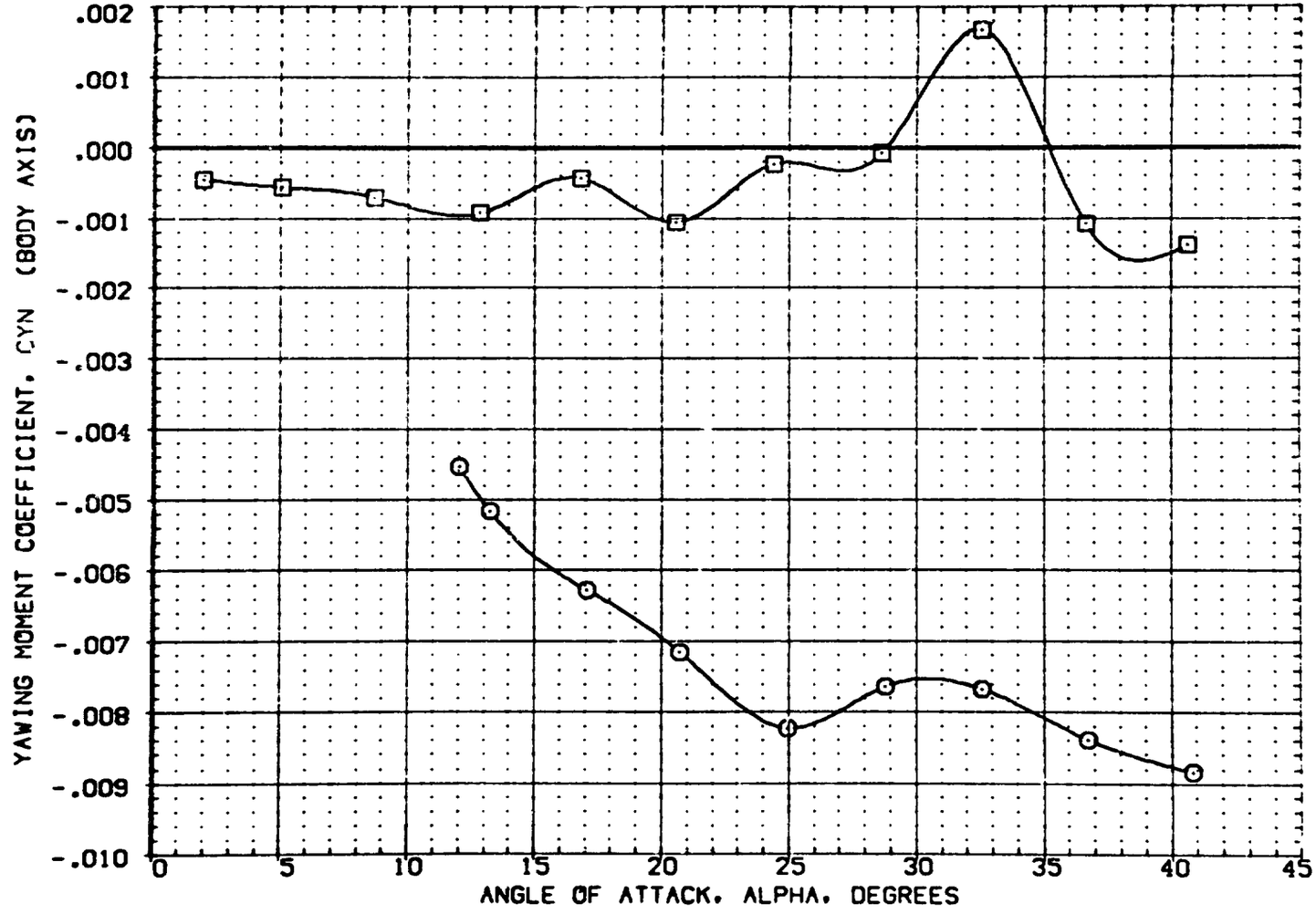


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER
(B960C2)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	5.000	-14.250	55.000	.000
(B960C1)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

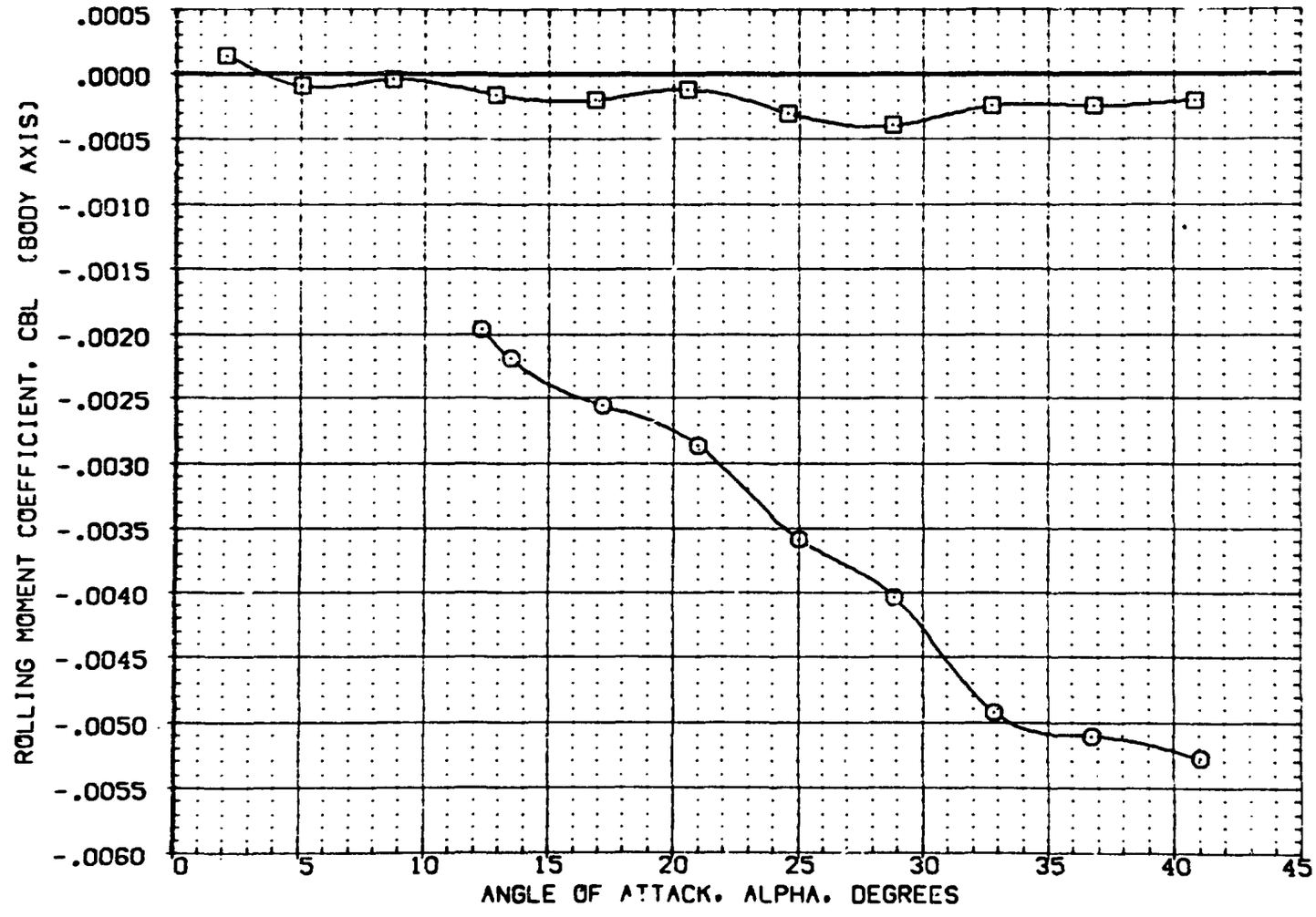


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPOBRK	RUDDER
[BB6002]	○	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	5.000	-14.250	55.000	.000
[BB6001]	□	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

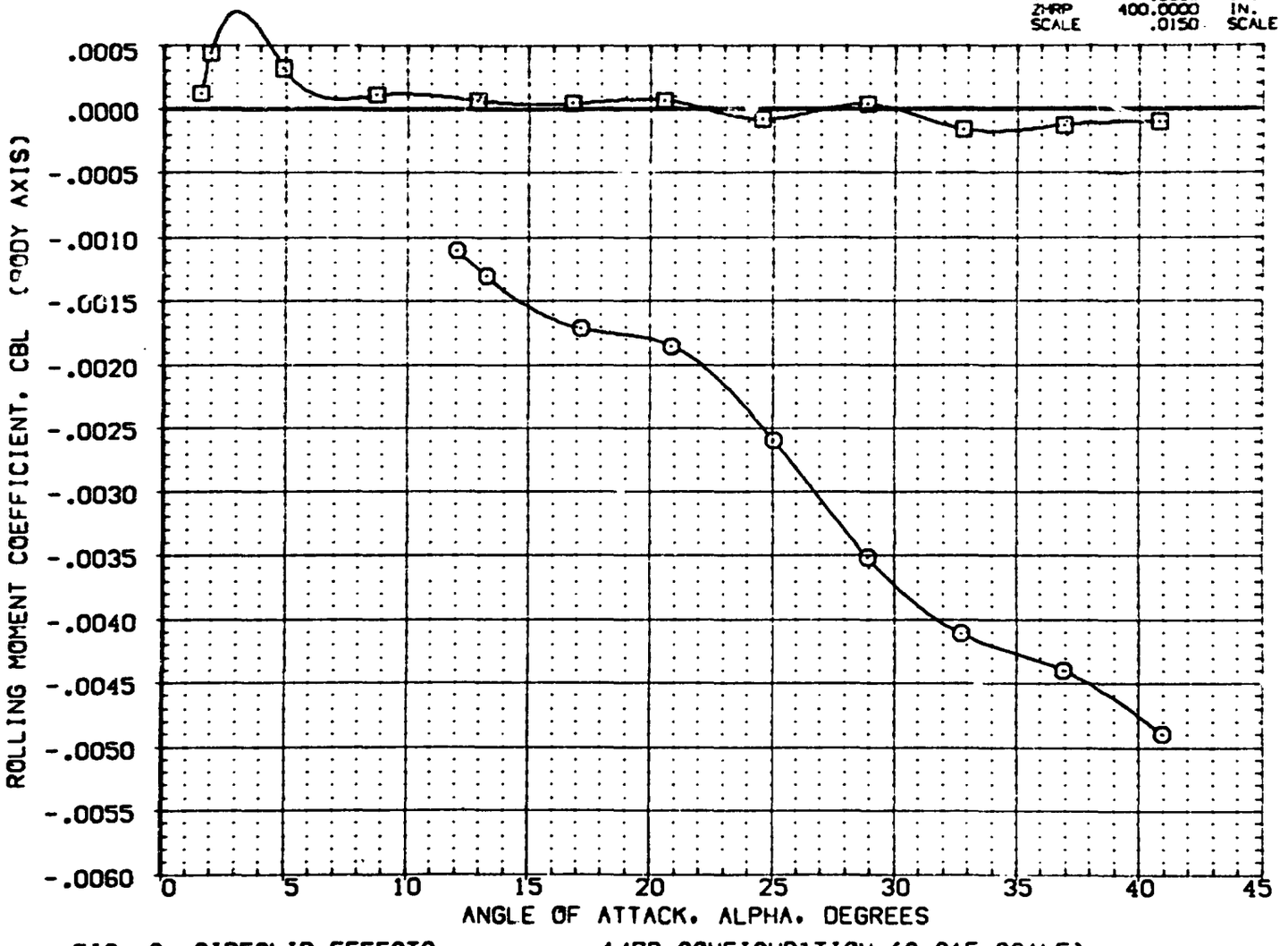


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER
[996002]	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	5.000	-14.250	55.000	.000
[996001]	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMPP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

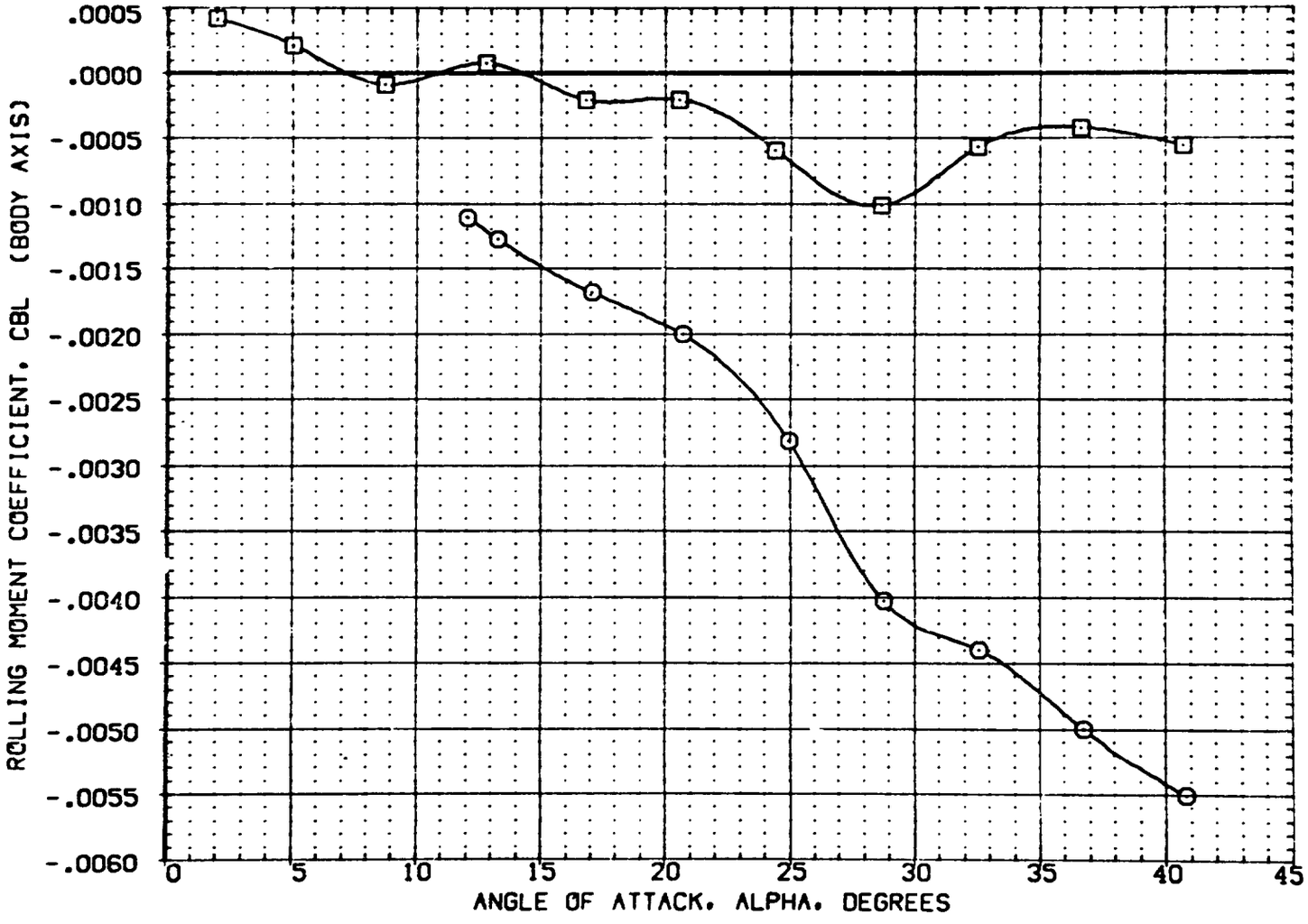


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

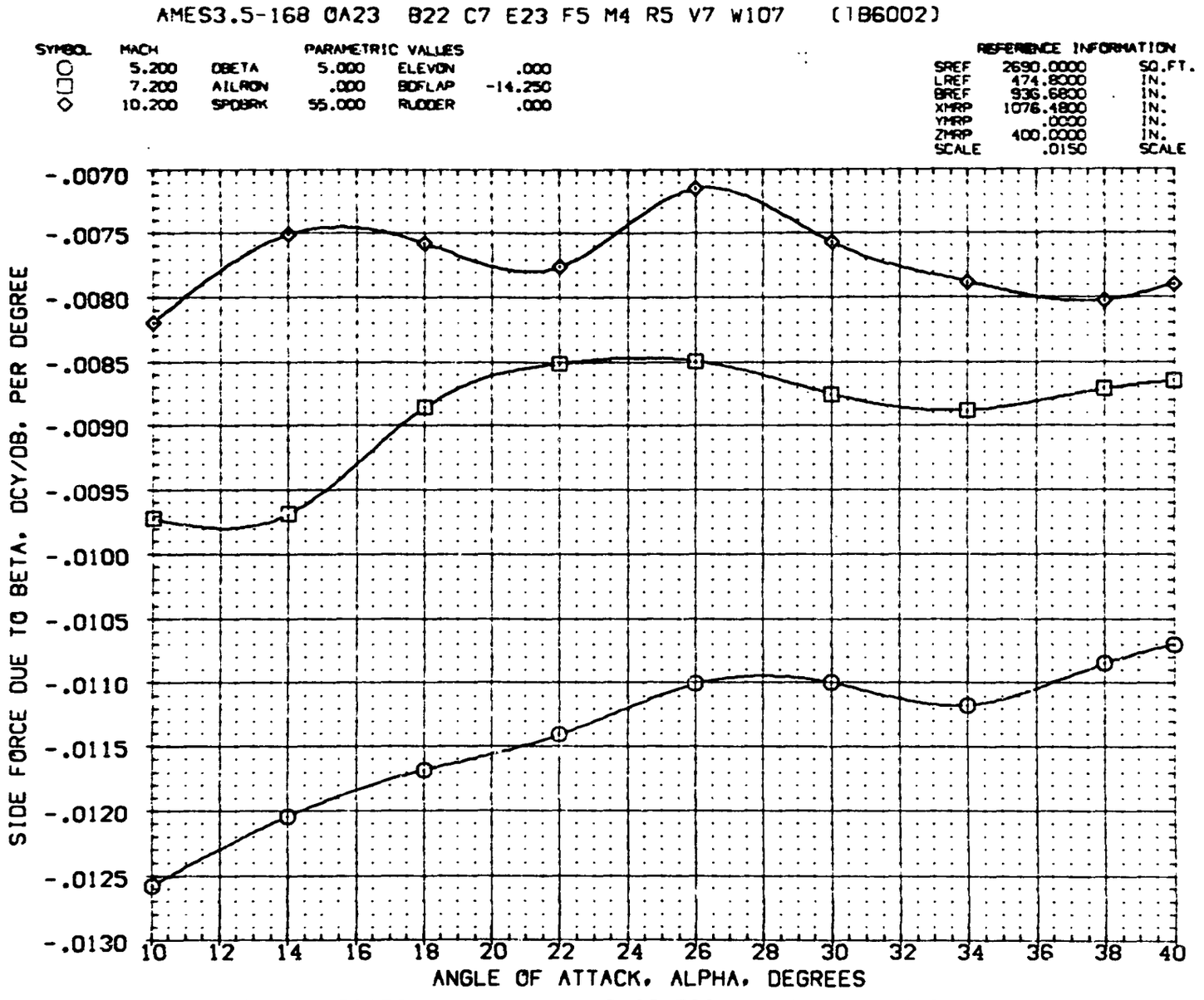


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

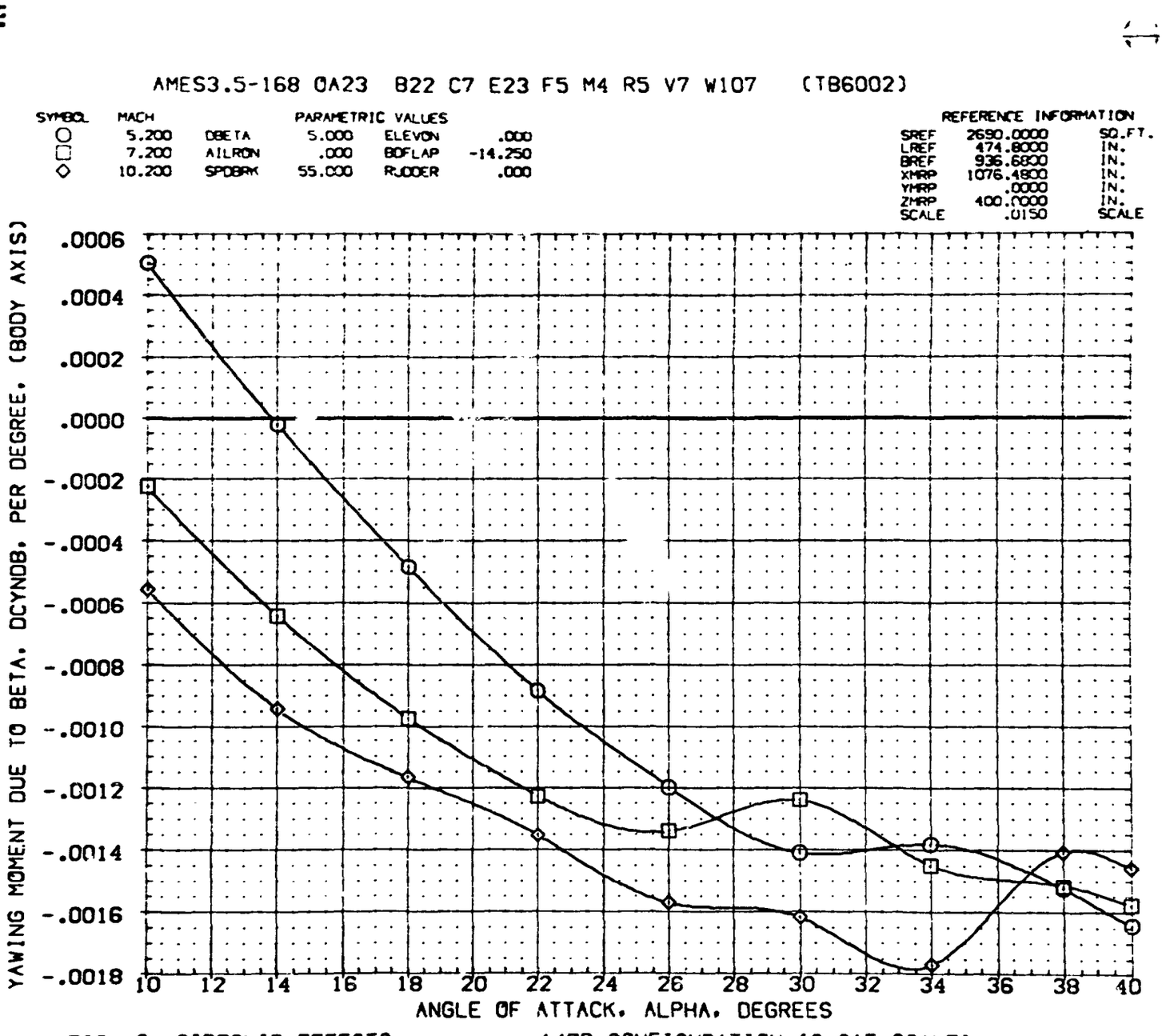


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

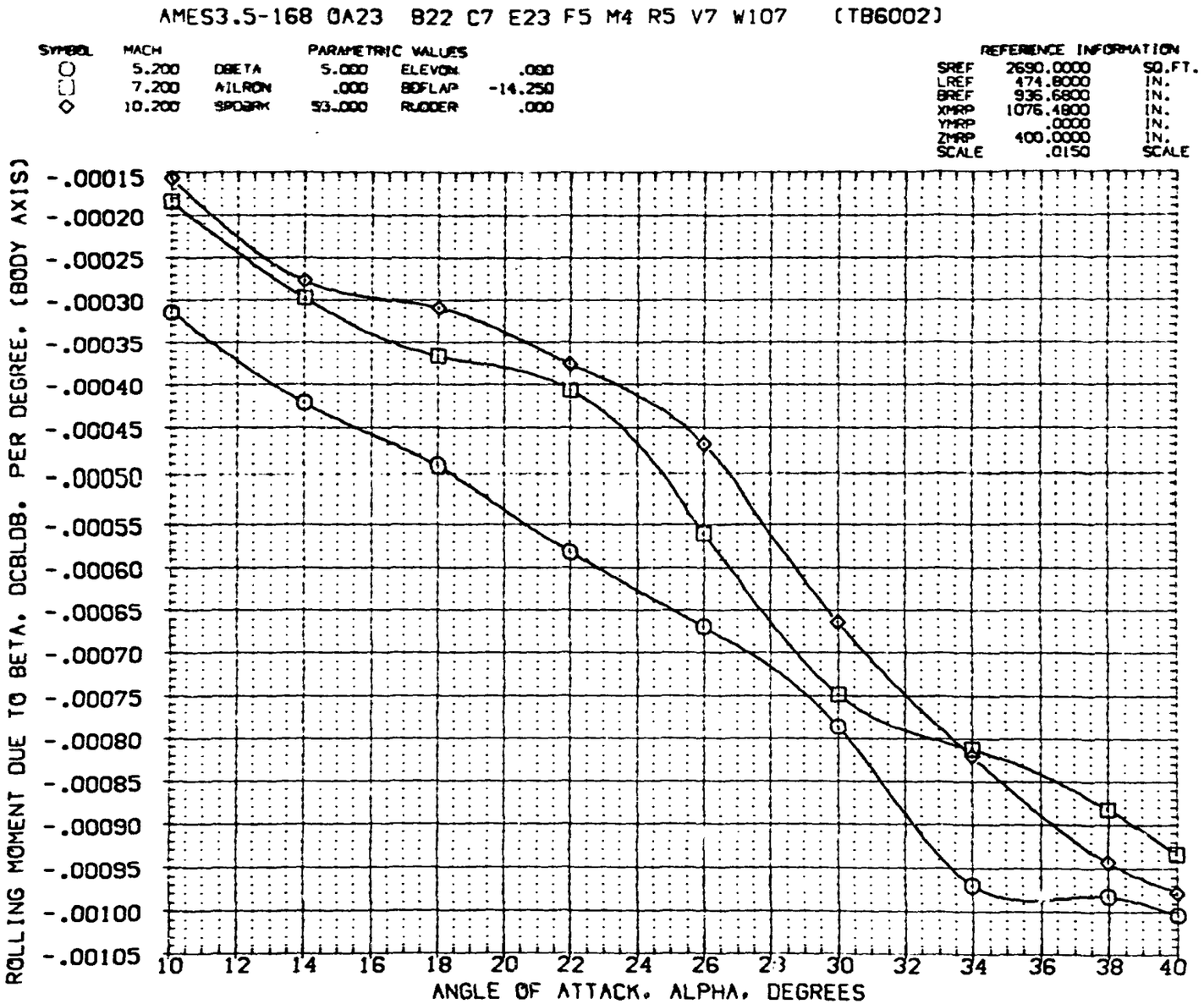


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

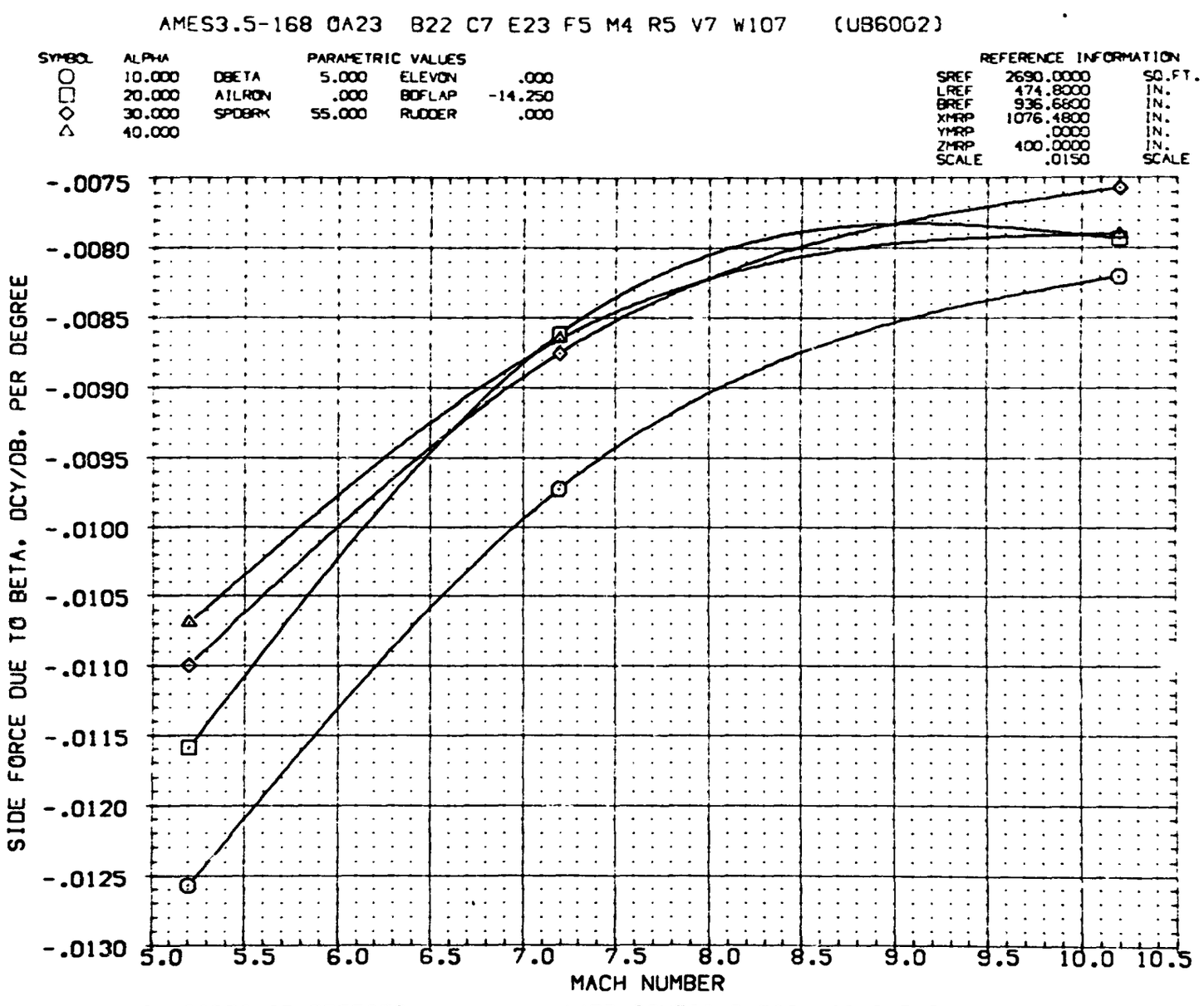


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

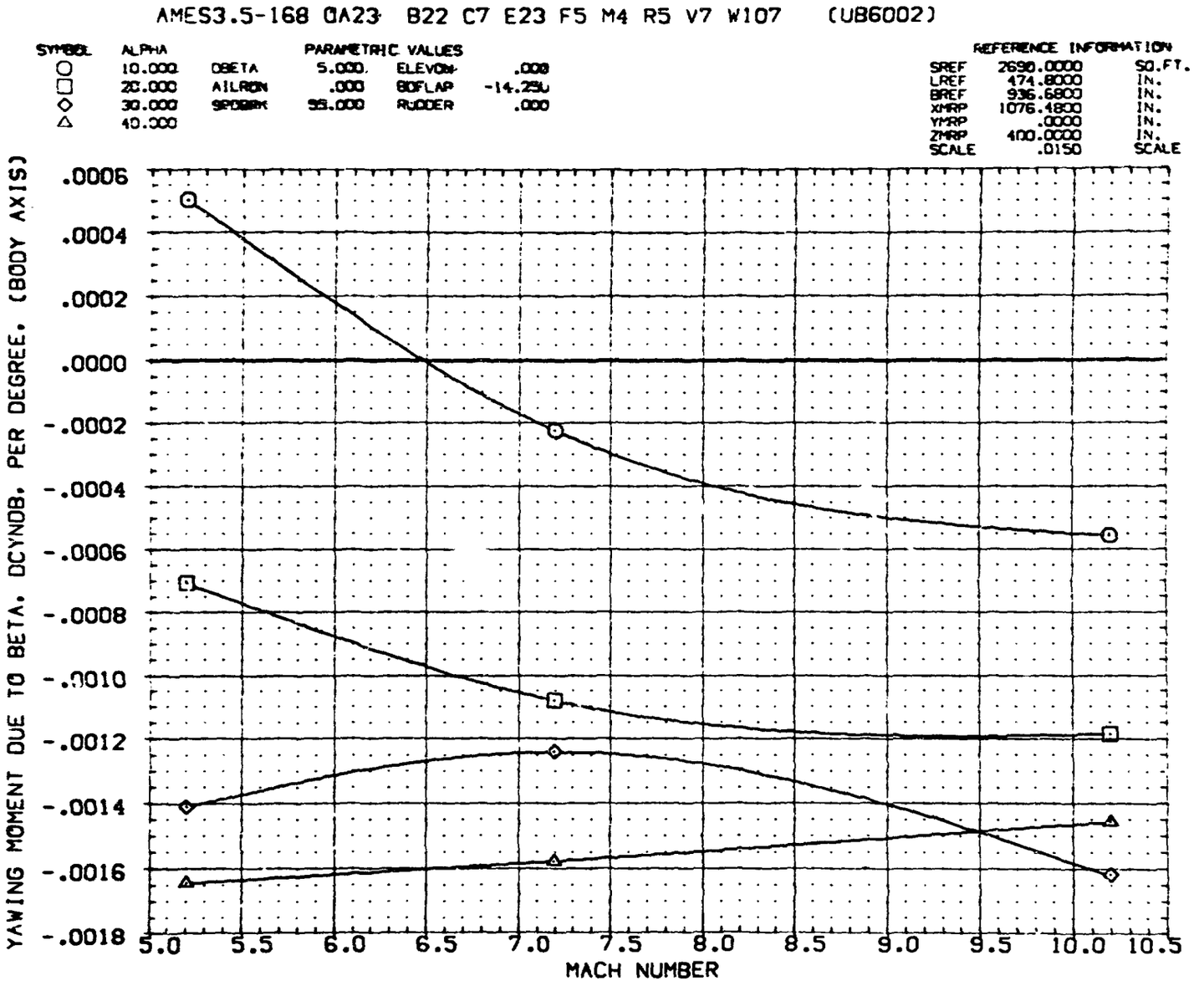


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

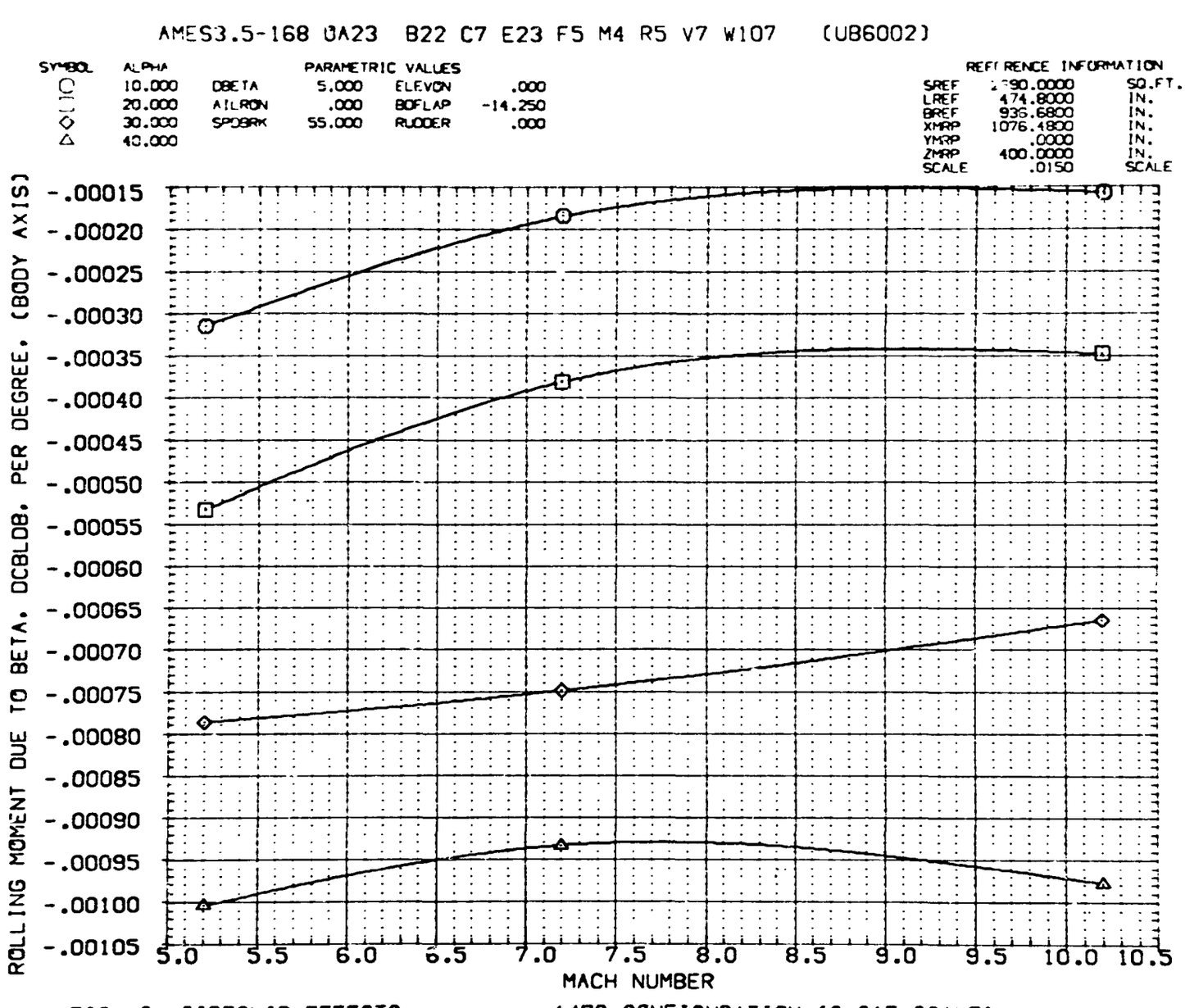


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
(886012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(886018)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(C86019)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(C86020)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4100	IN.
(C86021)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(C86013)	□	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

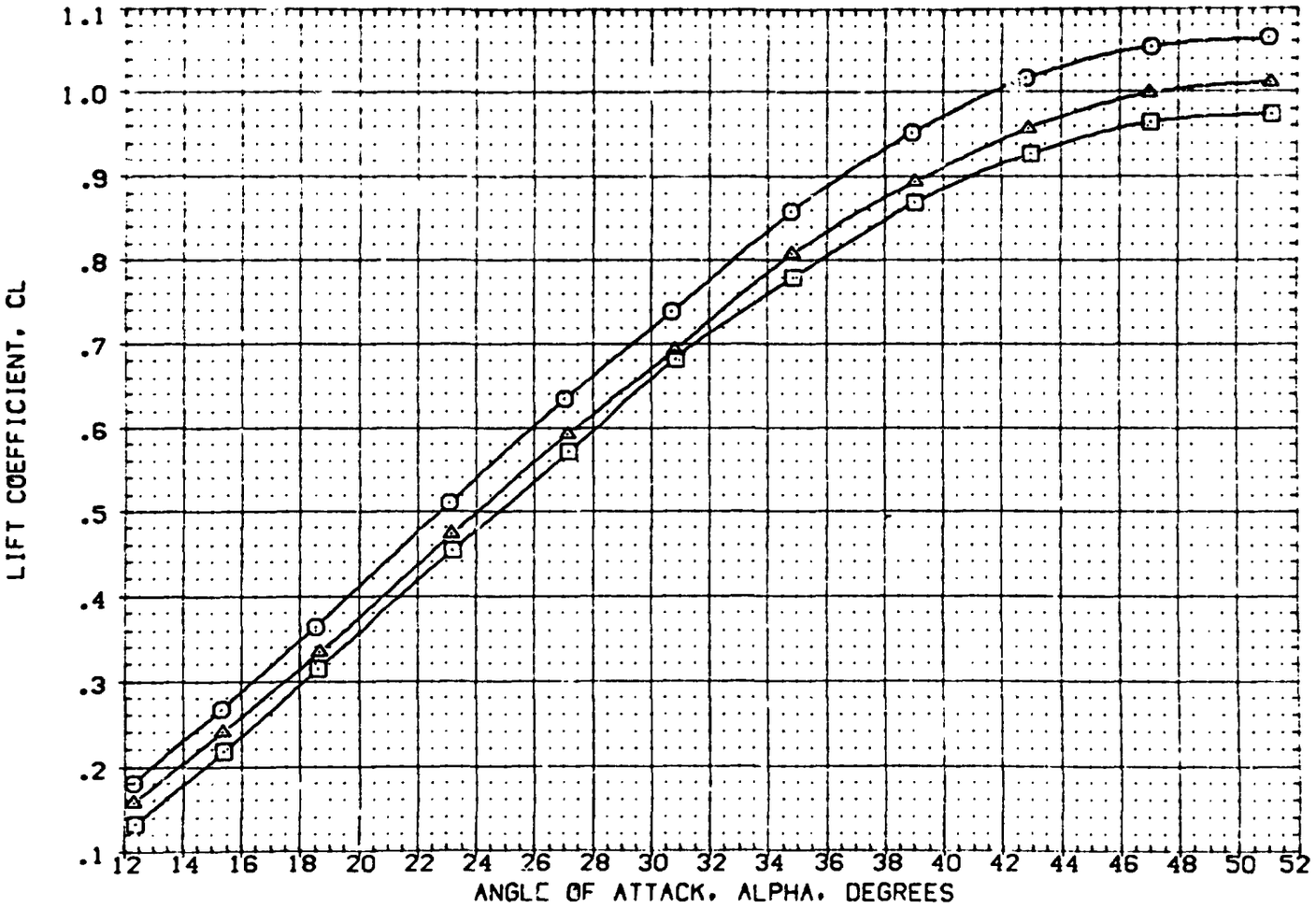


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(B96012)	□	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(B96018)	◇	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(B96019)	△	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(B96020)	○	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(B96021)	▽	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(B96013)	⬠	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

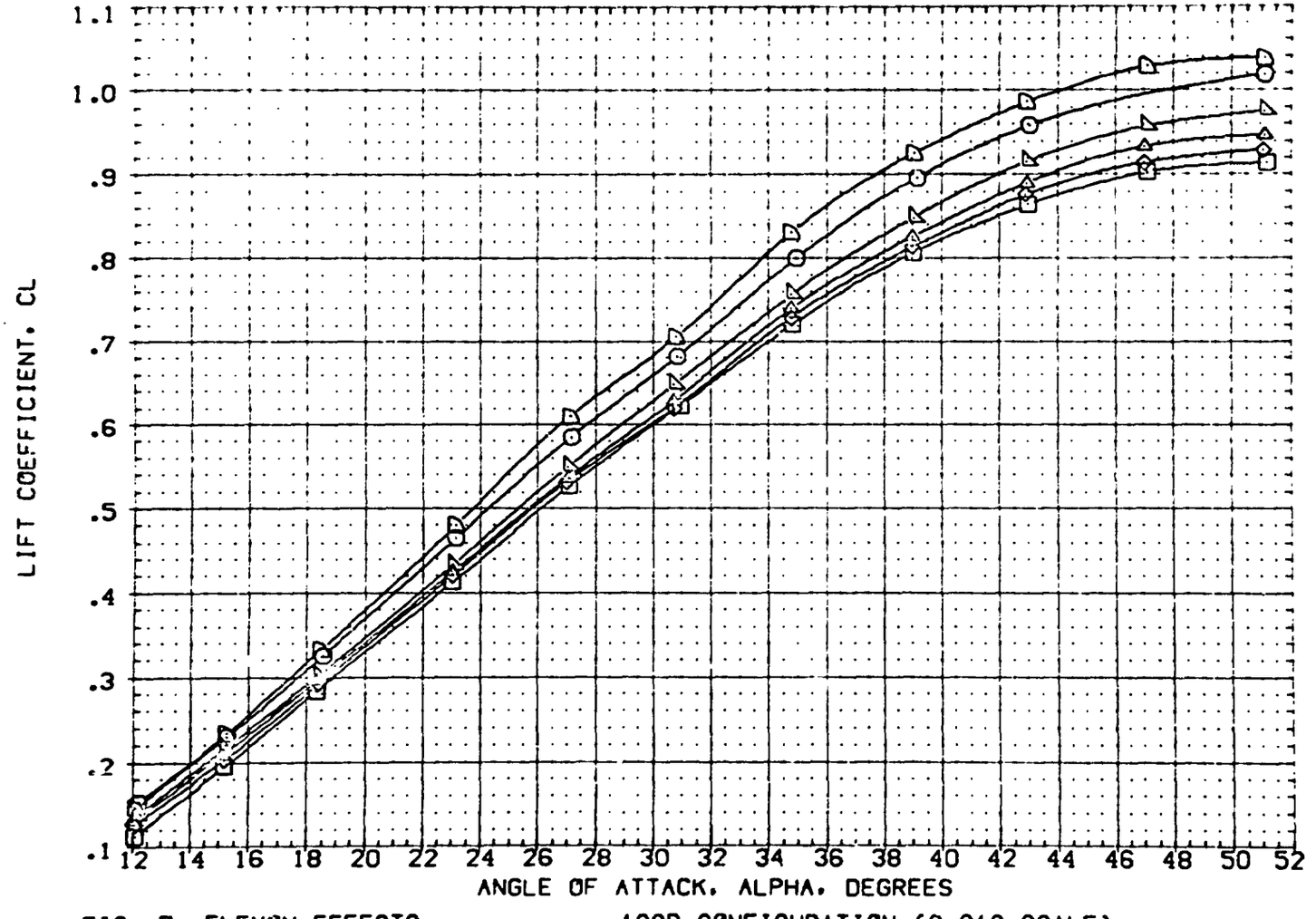


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(B86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(B86018)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(B86019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(86020)	△	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(B86021)	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(B86013)	⬠	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

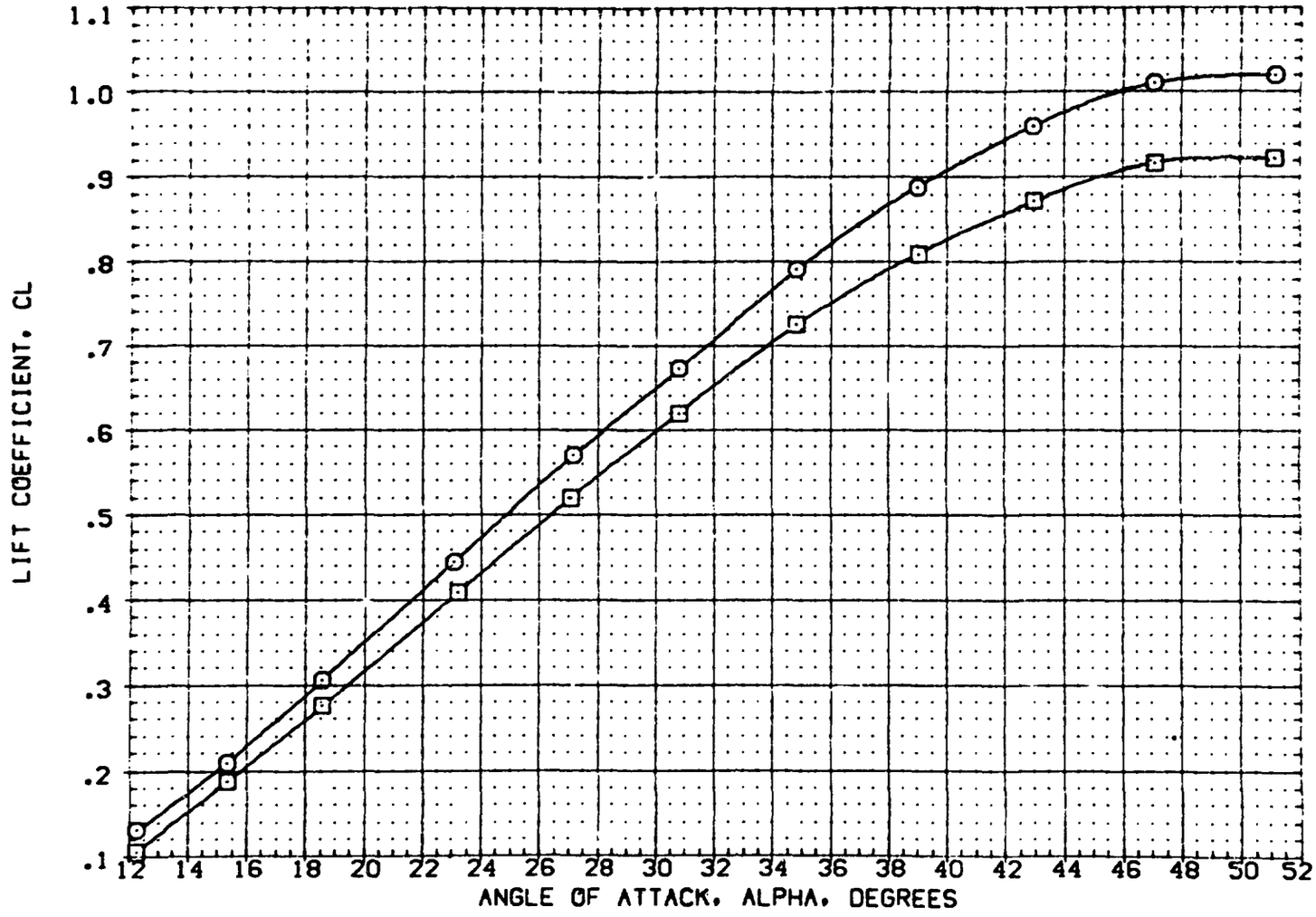


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(886012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(886018)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(CB6020)	⊠	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(CB6021)	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(CB6013)	△	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

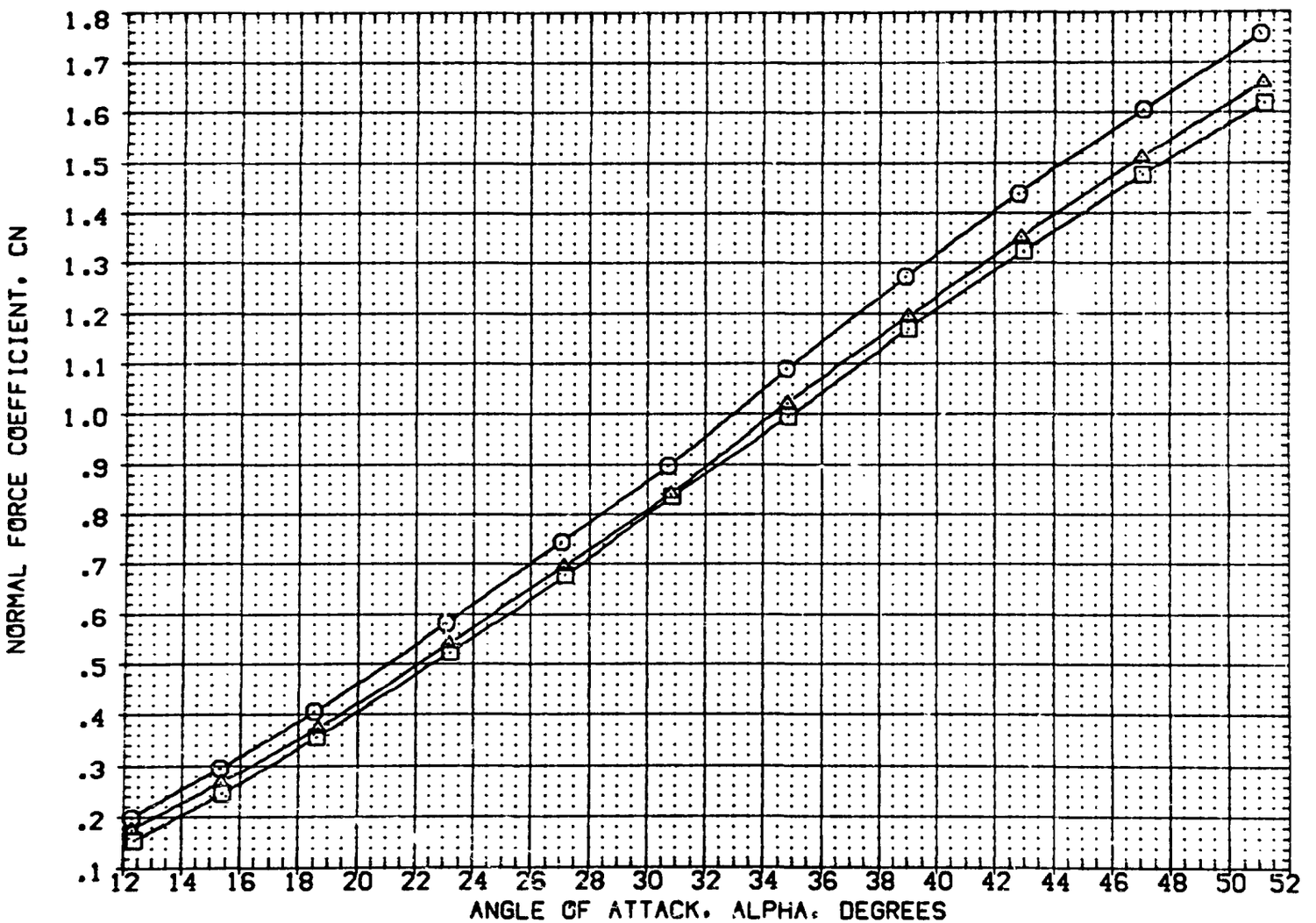


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
(B86012)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(B86018)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(B86019)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(B86020)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(B86021)		S3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(B86013)		3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

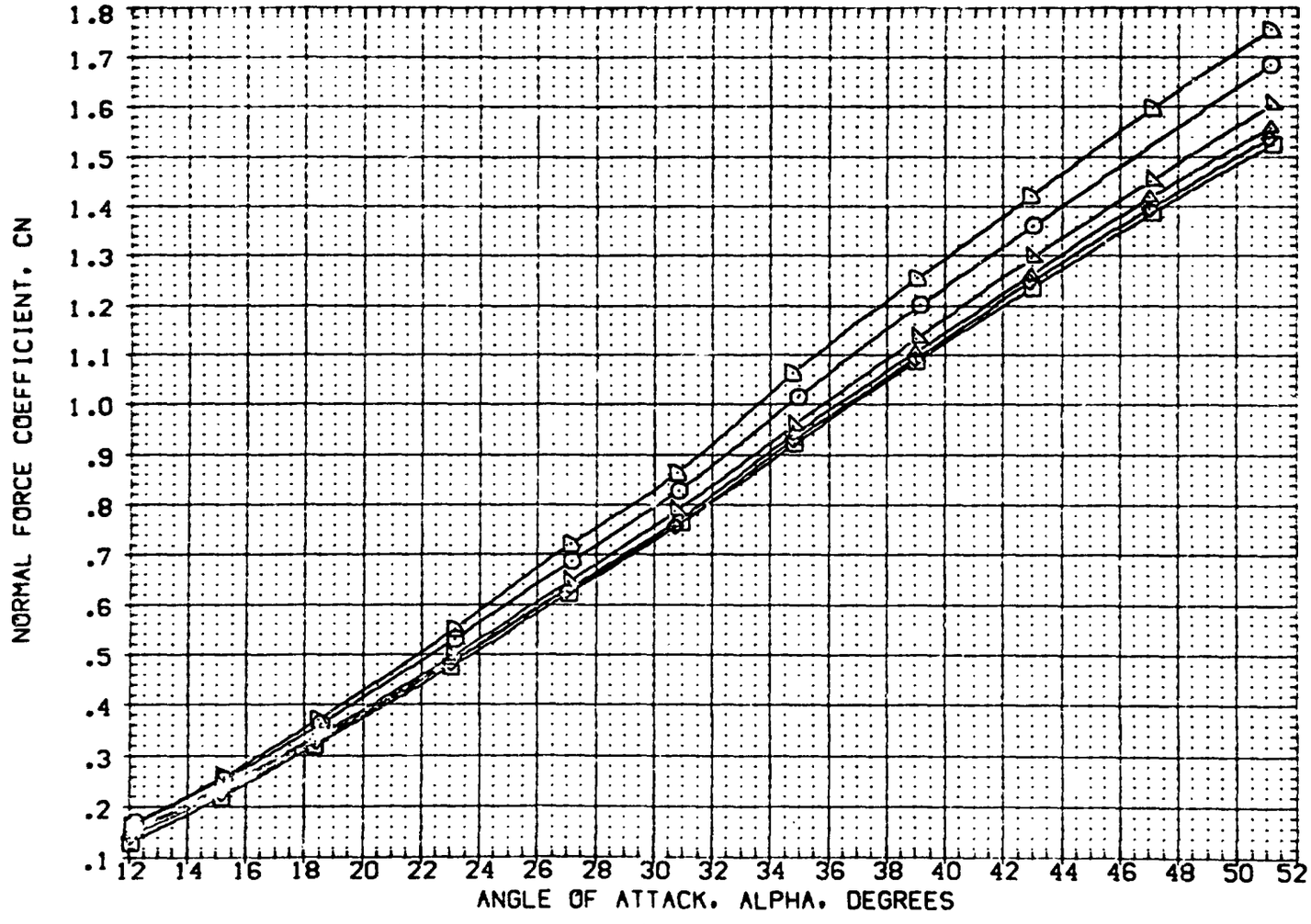


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(886012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(836018)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(836019)	⊠	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(836020)		DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(836021)	△	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(836013)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

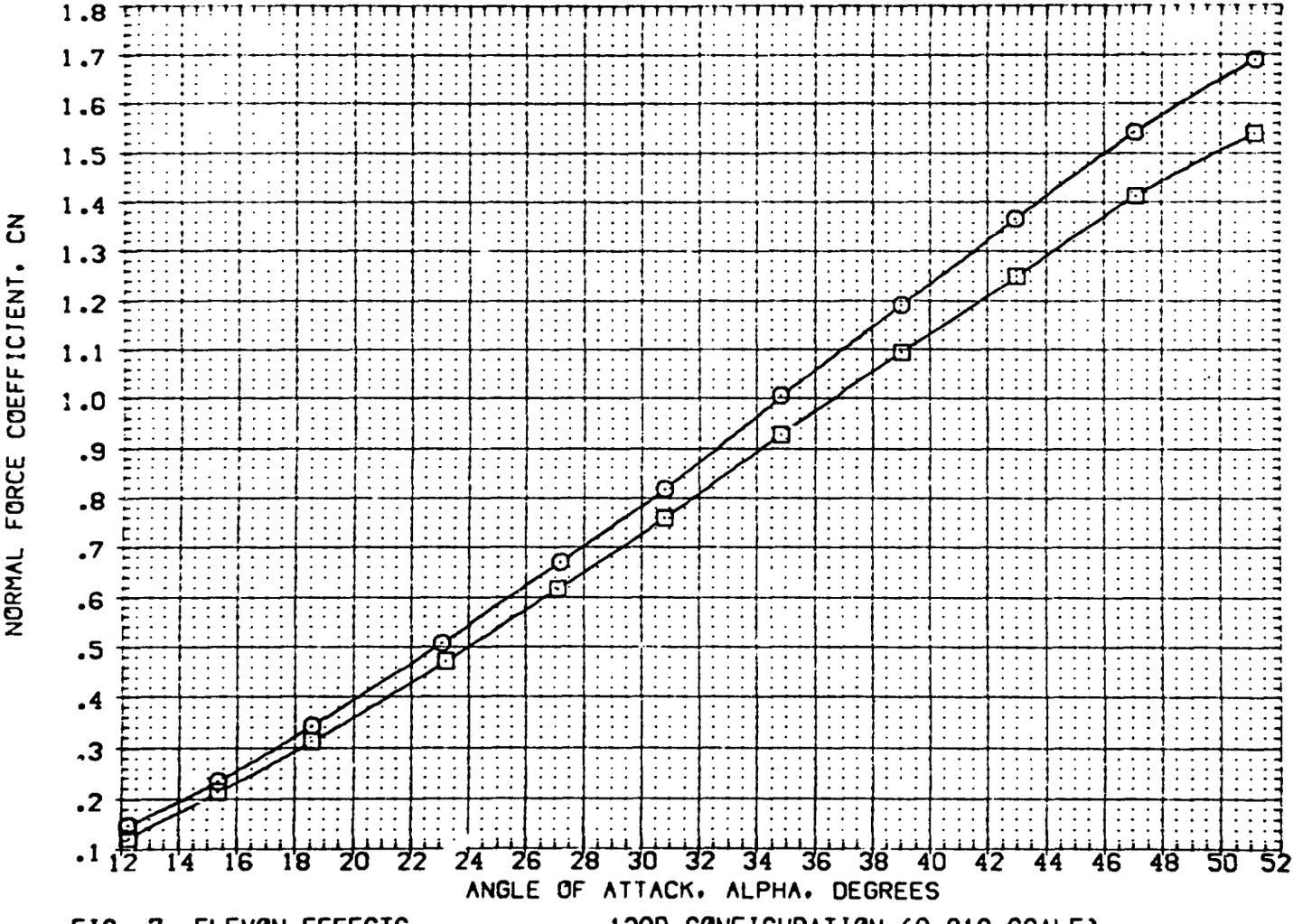


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(8860:2)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(8860:8)	△	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(C860:9)		DATA NOT AVAILABLE.	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(C860:20)		AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(C860:1)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(C860:3)		DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

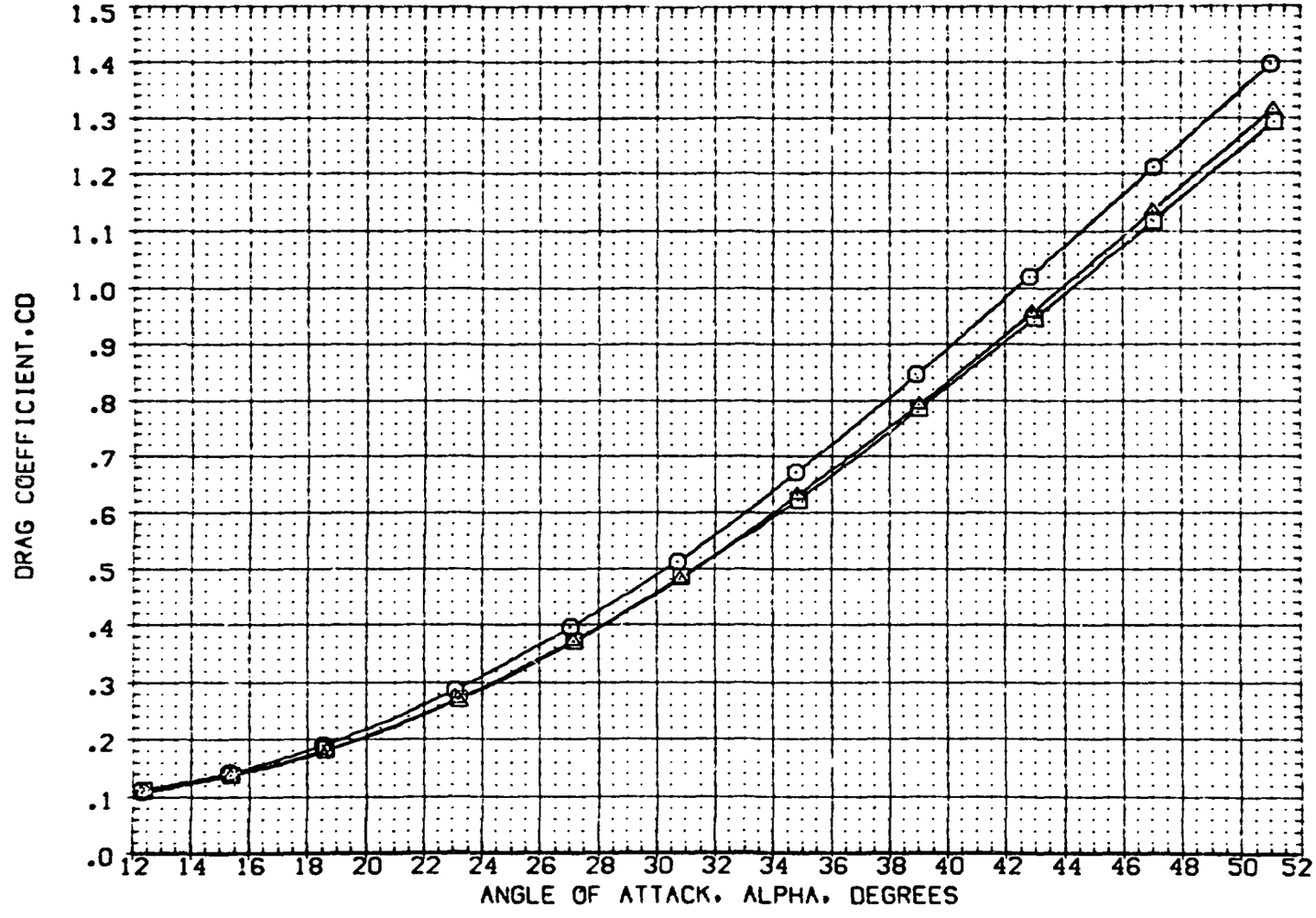


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(B960I2)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(B960I8)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(B960I9)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000
(B960I20)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(B960I21)	▽	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000
(B960I3)	▷	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

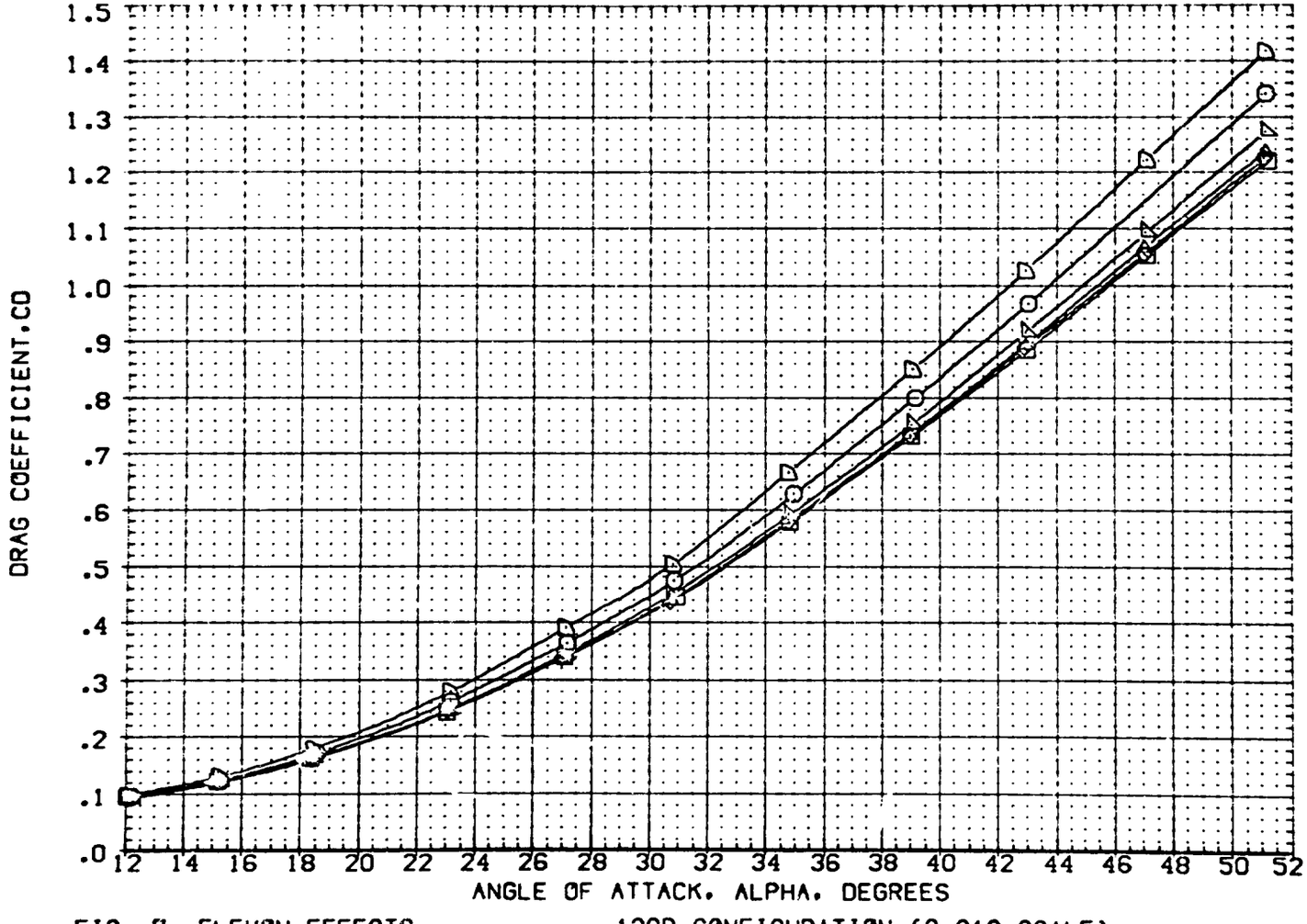


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(B86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(B86018)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(B86019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(B86020)	◁	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(B86021)	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(B86013)	▷	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

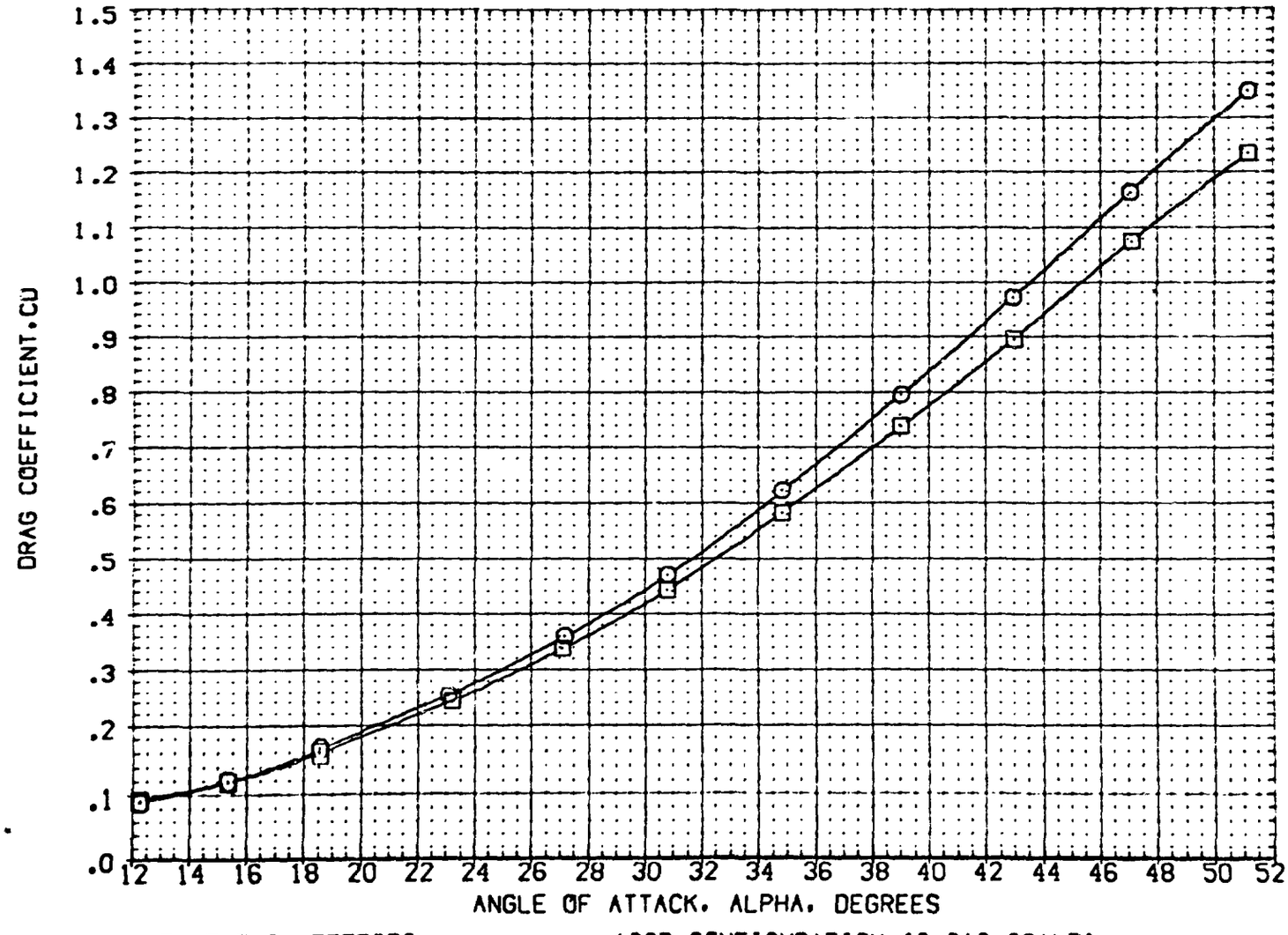


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(B86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(B36018)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000
(B86019)	⋈	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(B36020)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000
(B36021)	▷	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(B36013)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

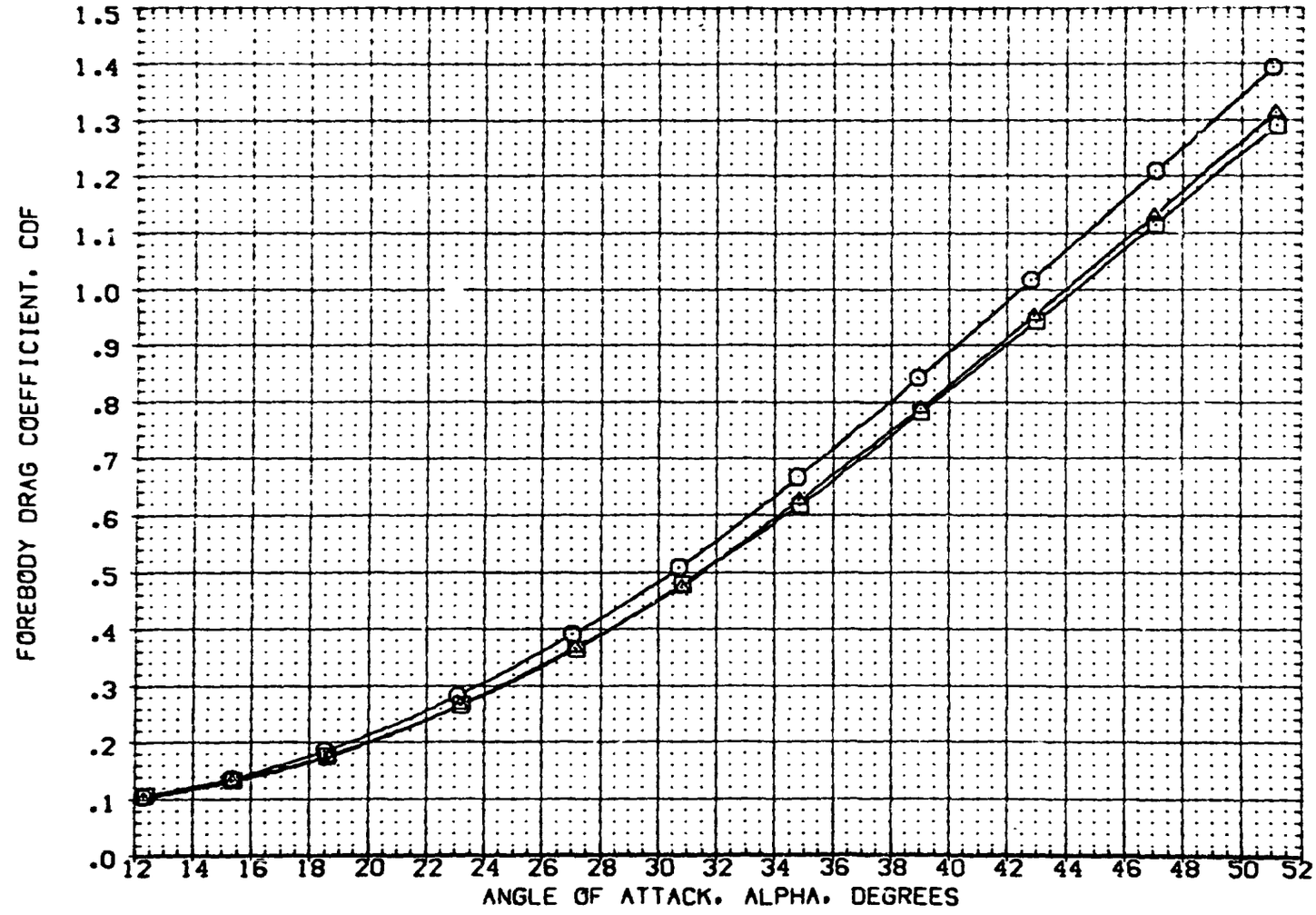


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(B860:2)		AMES3.5-168-0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(B860:8)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(B860:9)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(B860:20)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(B860:1)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(B860:3)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

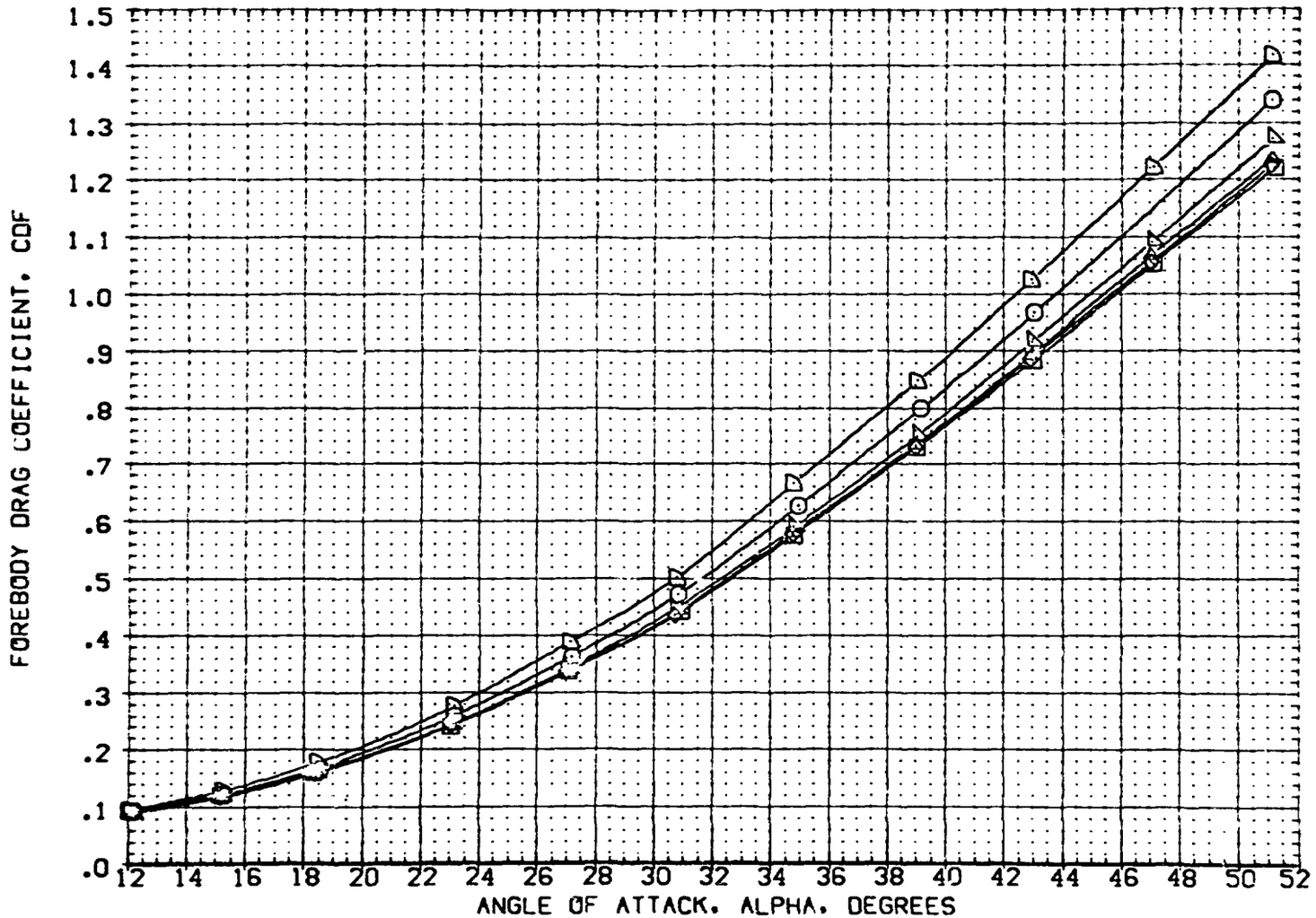


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(8860:2)	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(8860:8)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(8860:9)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(8860:20)	△	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(8860:21)	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(8860:3)	☆	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

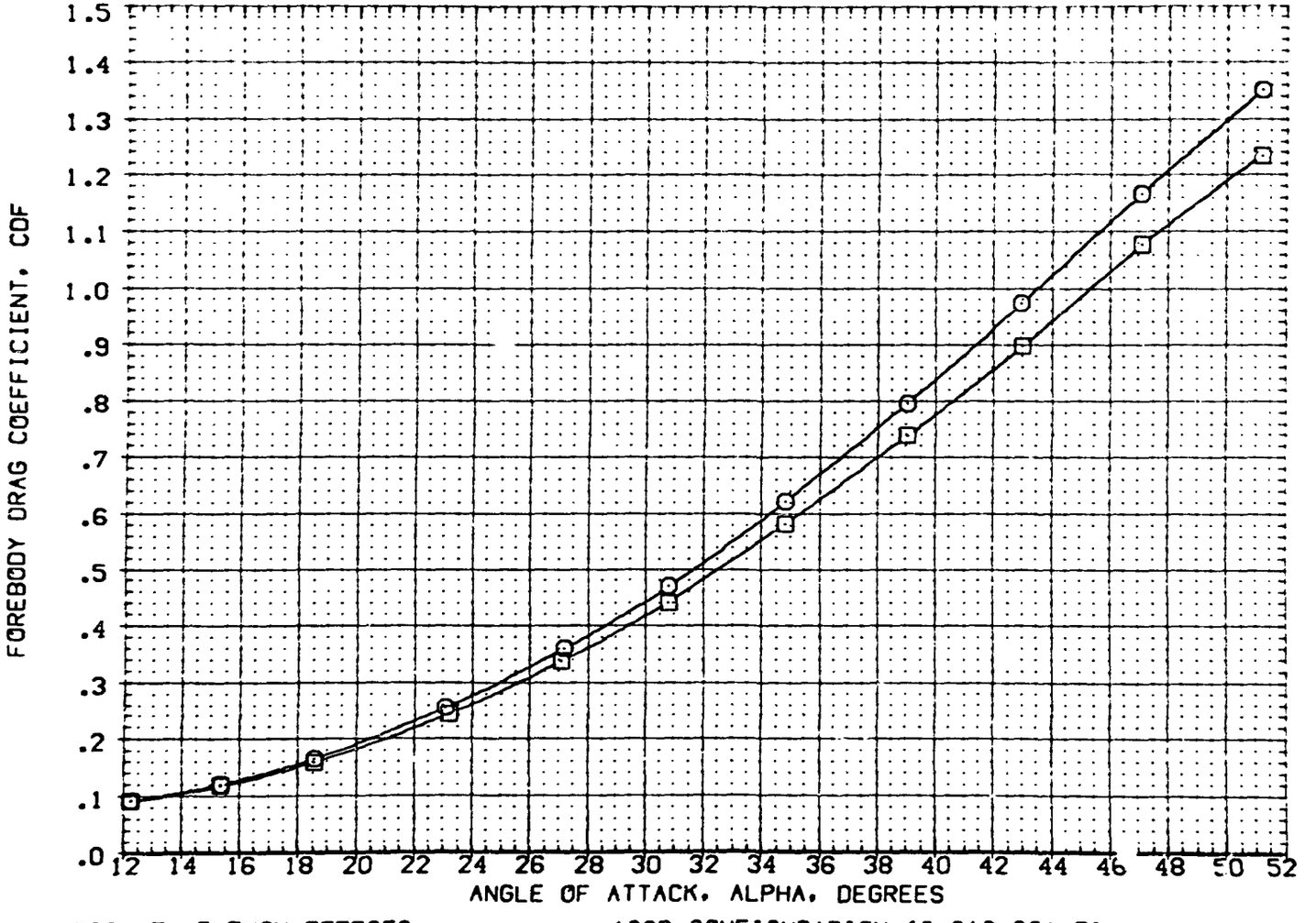


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(B86012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(B86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(C86019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(C86020)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(C86021)	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(C86013)	▷	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

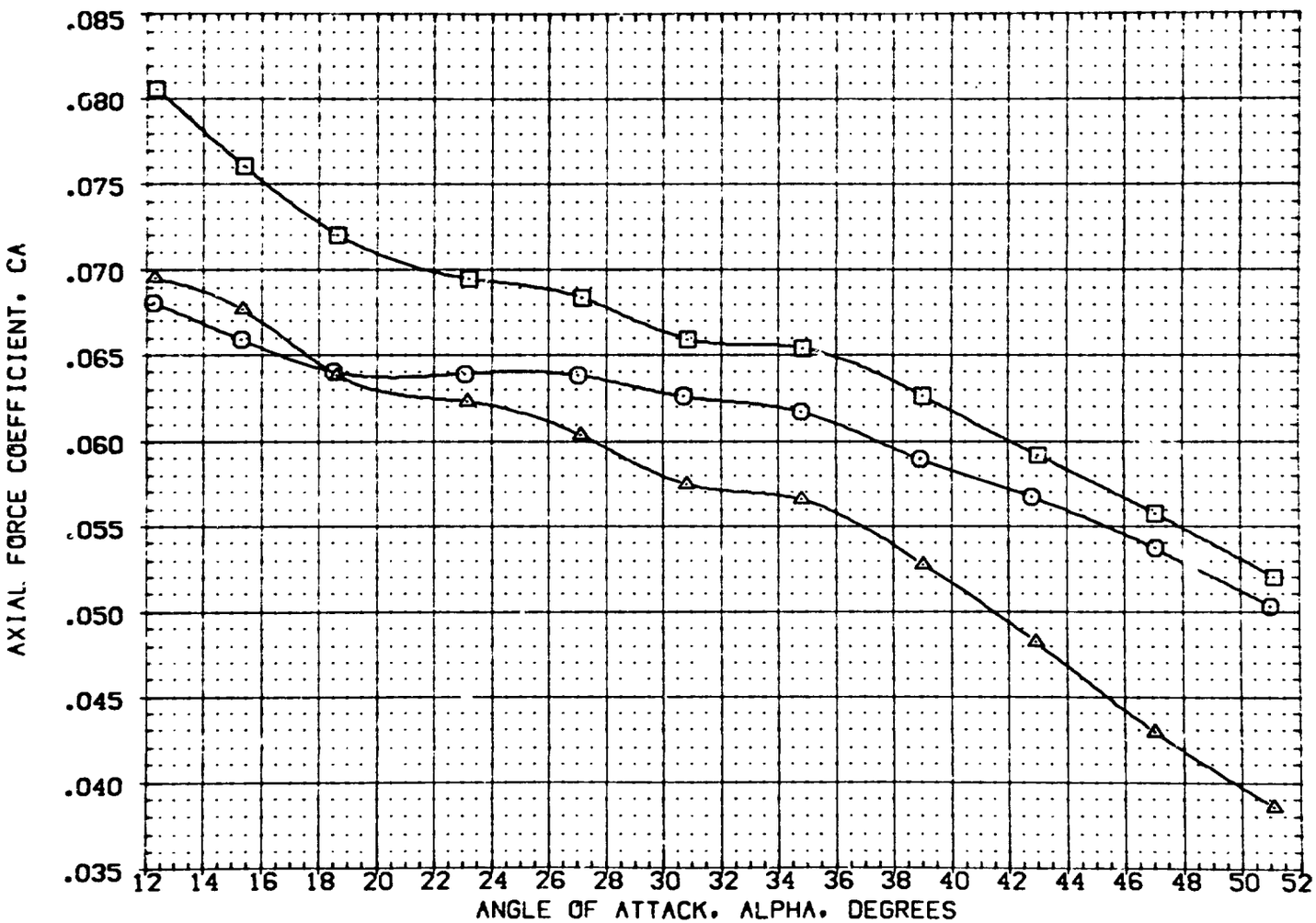


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(836012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(836018)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(836019)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(836020)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(836021)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(836013)	▷	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

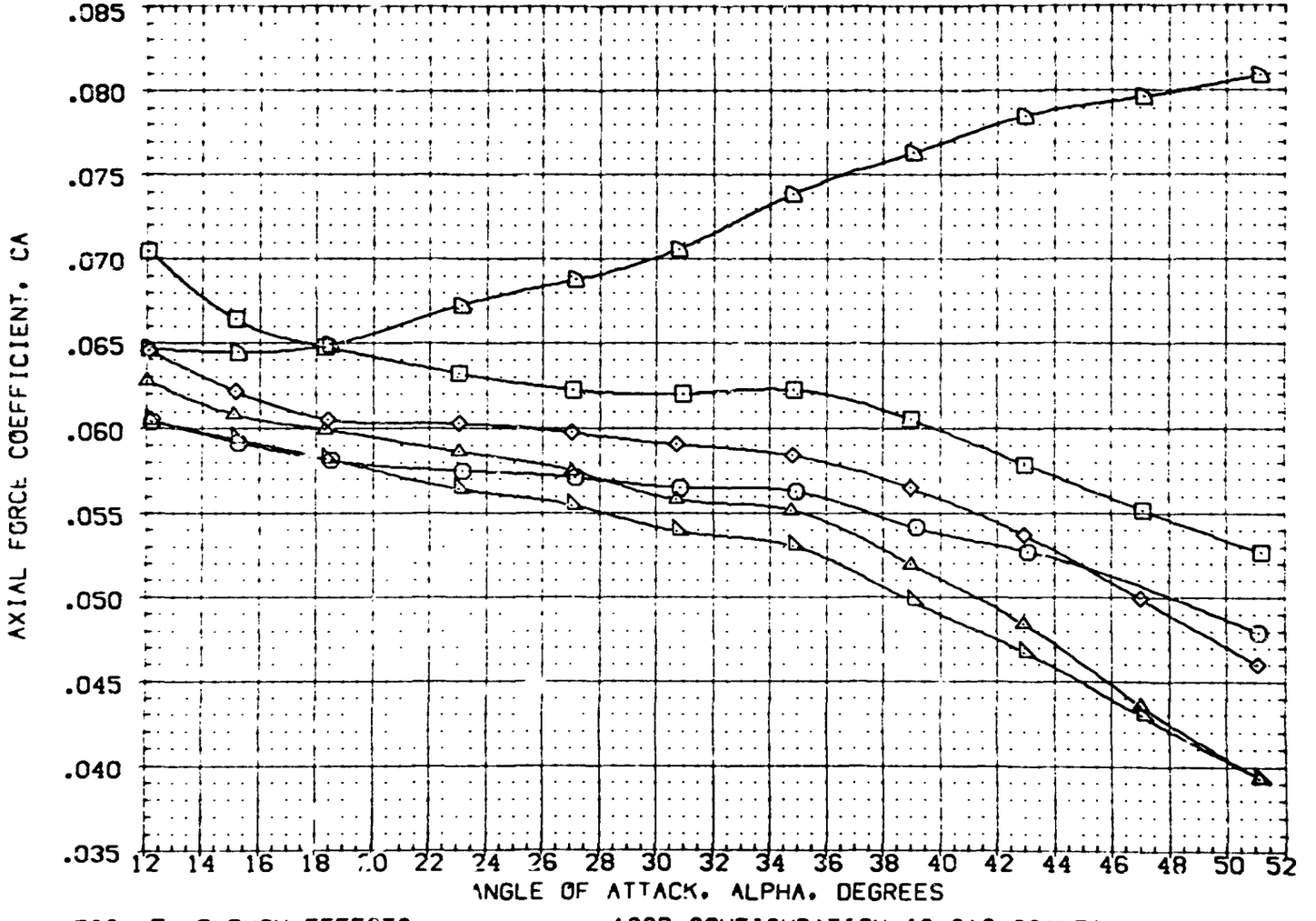


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

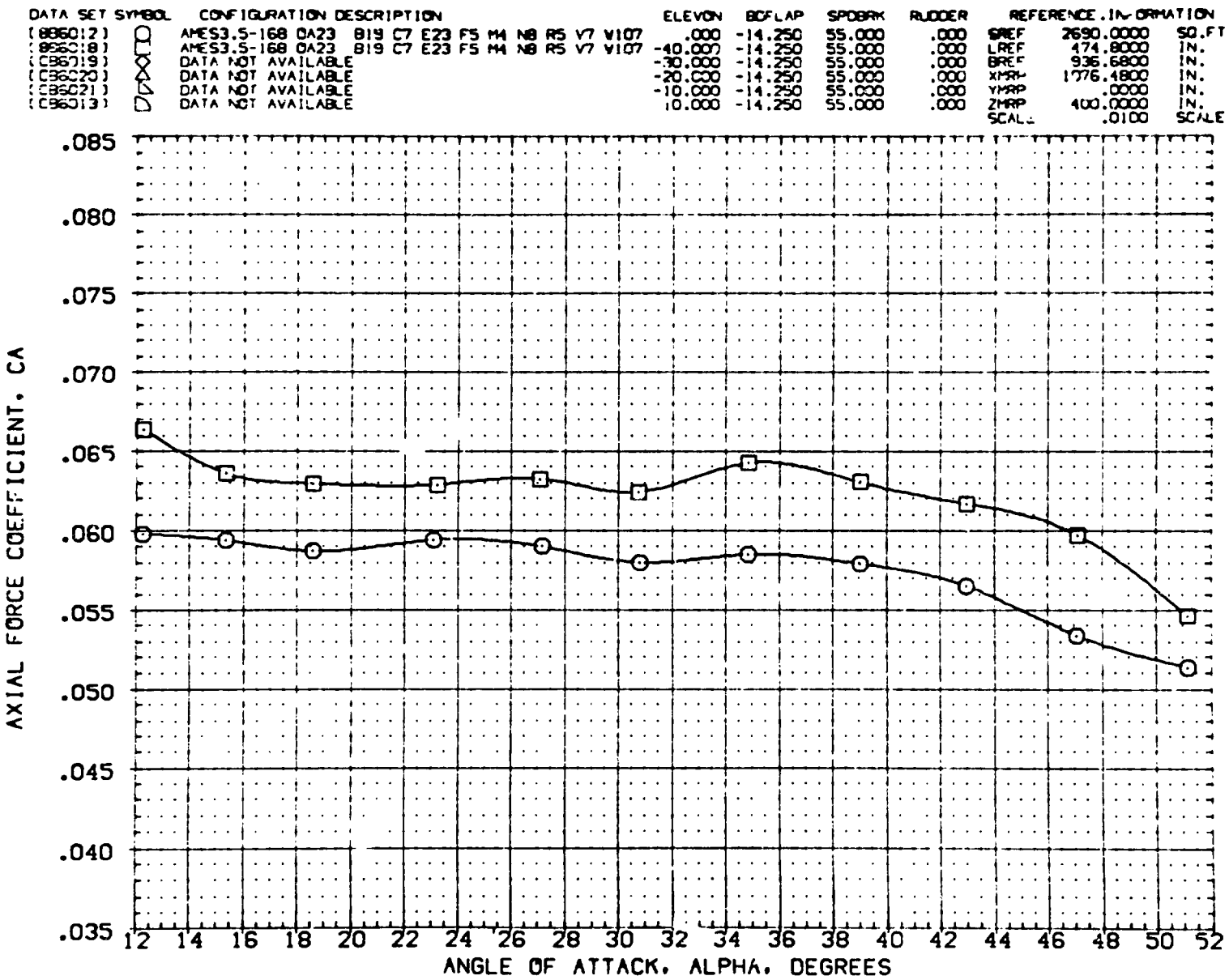


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(8960:2)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(8360:8)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(8960:9)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(8360:0)	⊠	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(8960:1)	△	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(8960:3)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.[illegible]	IN.
XMRP	1076.4[illegible]	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

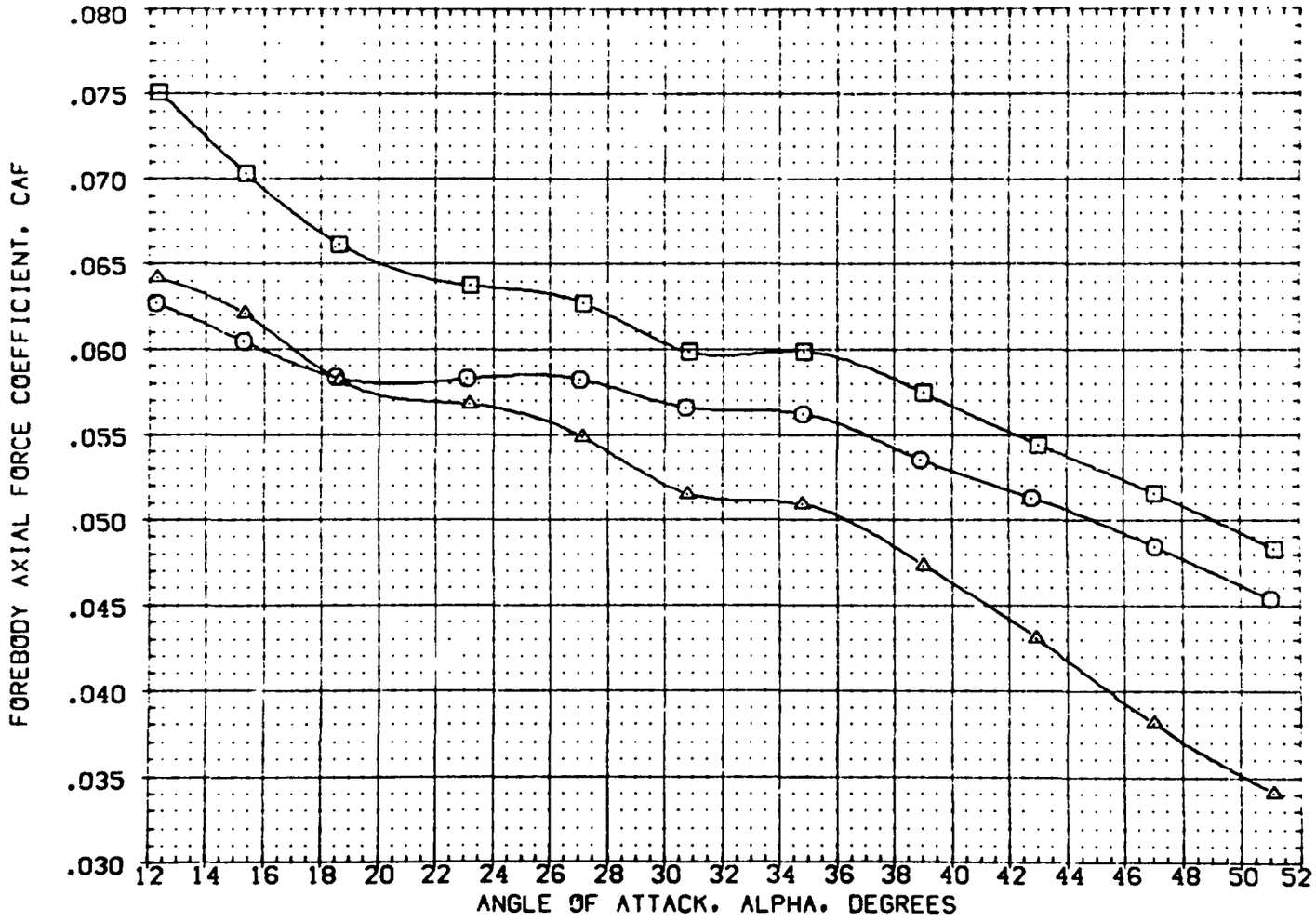


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(886012)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(886018)	◇	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(C86019)	⊠	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000
(C86020)	△	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(C86021)	▷	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000
(C86013)	○	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

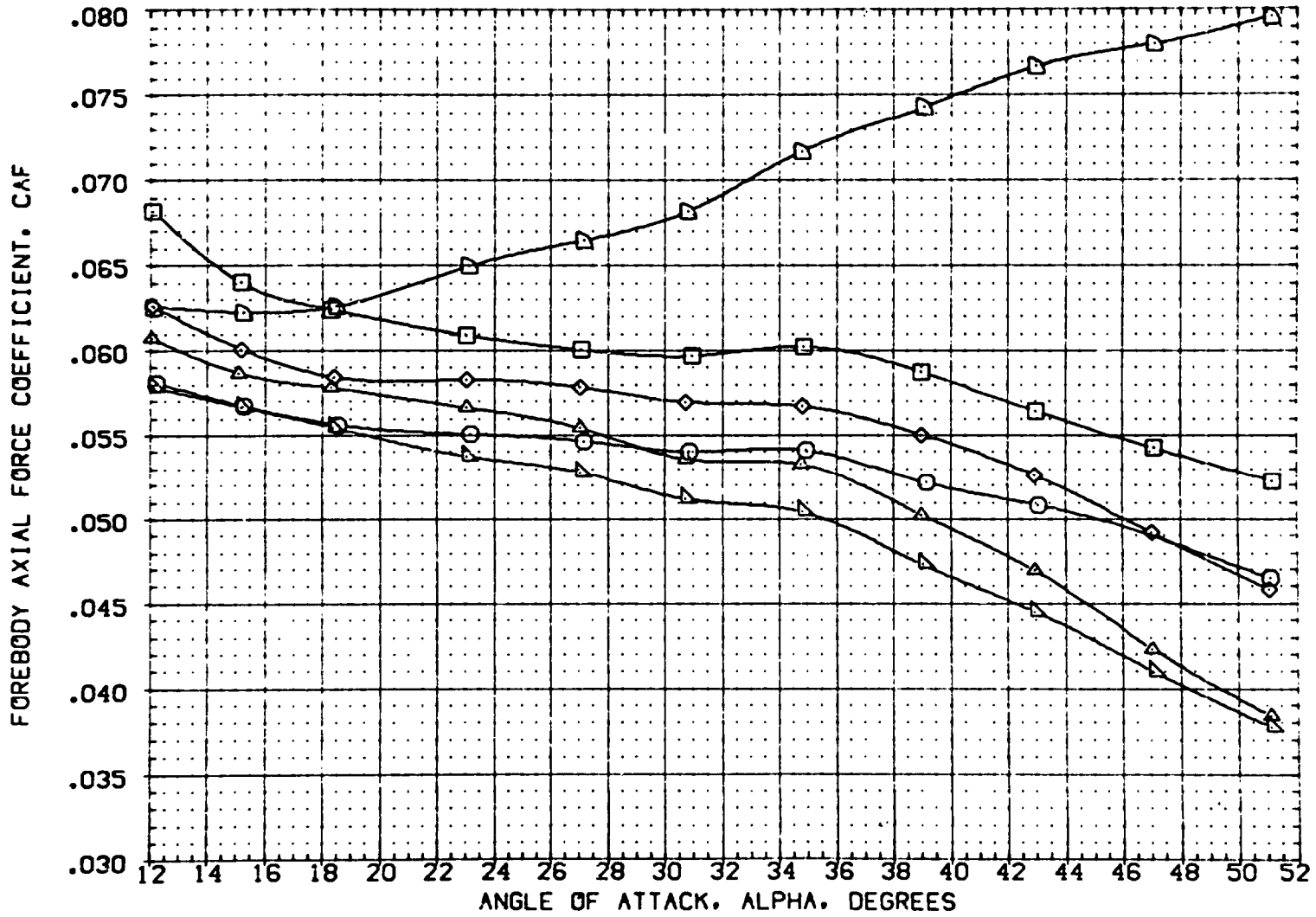


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(B96012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(B96018)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(B96019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(B96020)	▽	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(B96021)	▷	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(B96013)	○	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

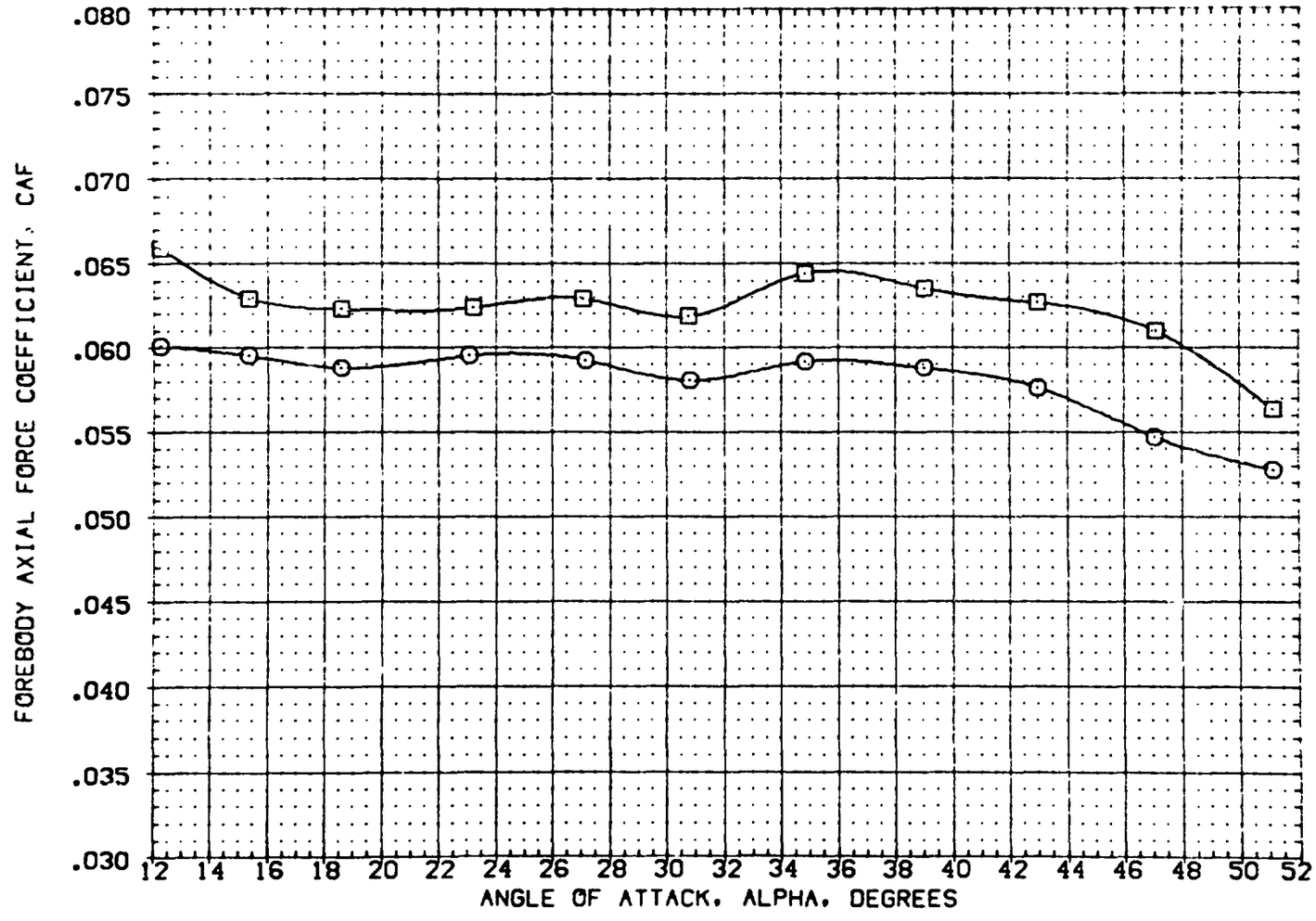


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
(B86012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(B86018)	⊠	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(C86019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(C86020)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(C86021)	⊙	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(C86013)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

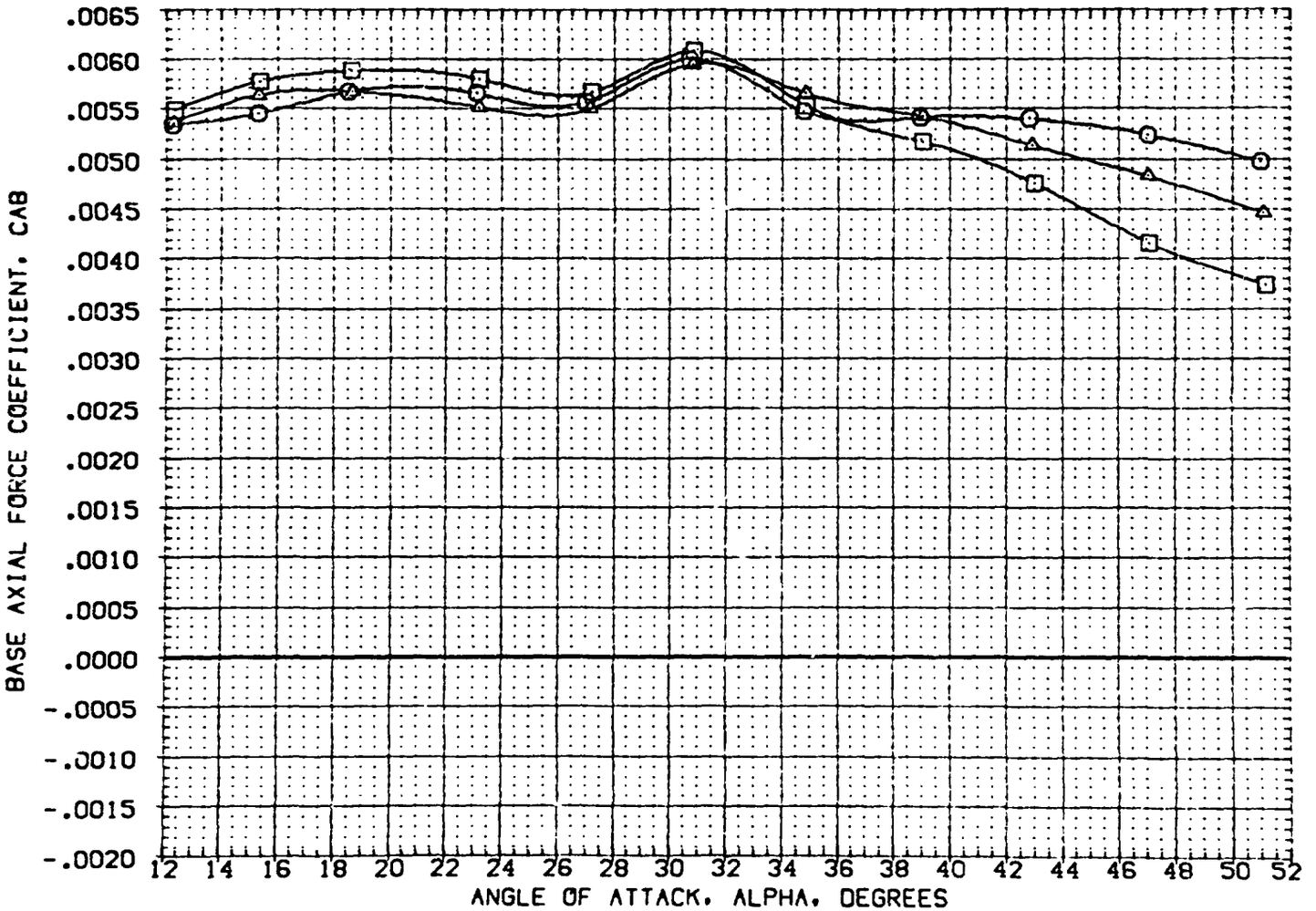


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(886C12)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(886C18)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(886C19)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000
(886C20)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(886C21)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000
(886C13)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

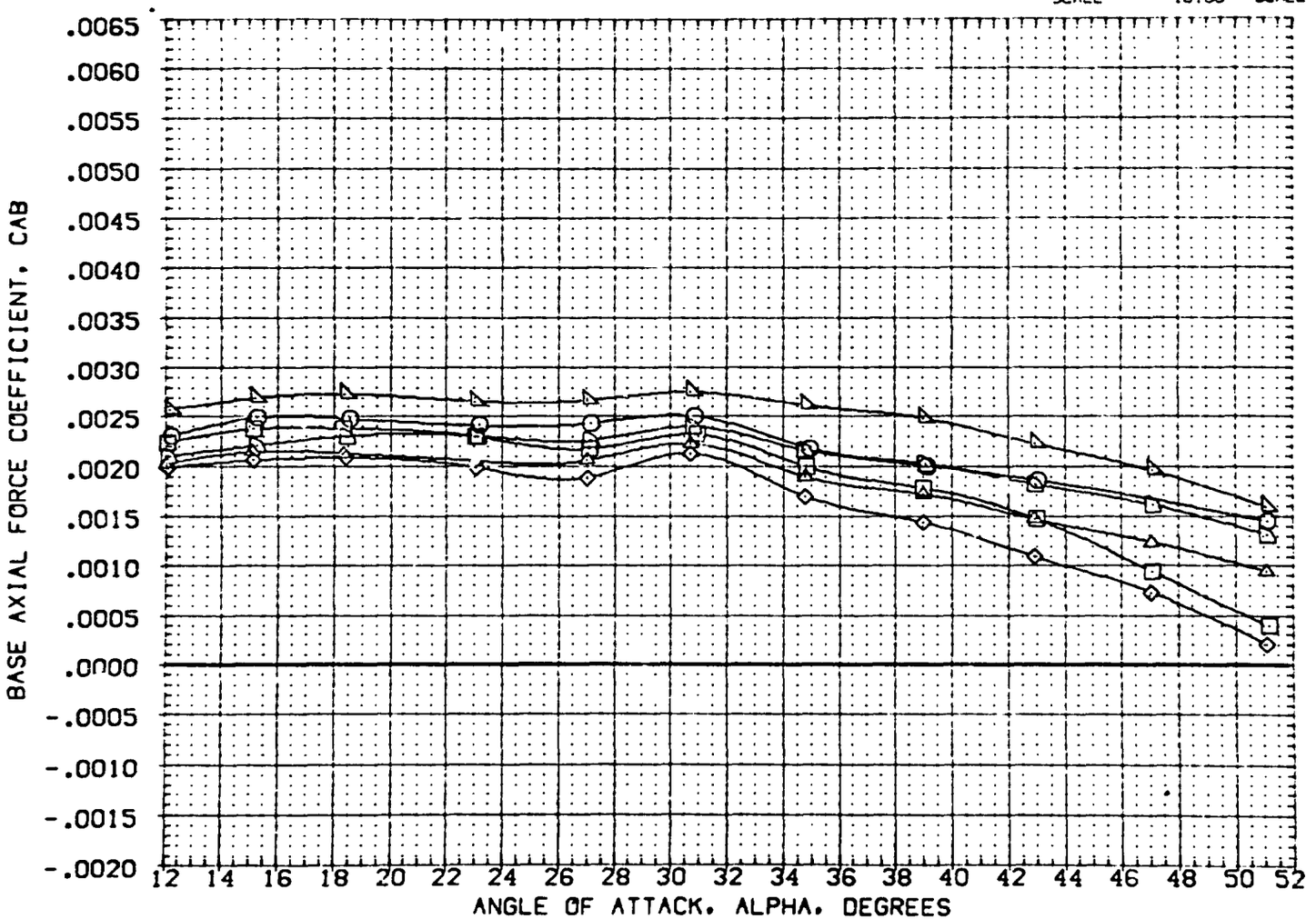


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(886012)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(886018)	▽	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(886019)	⊠	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(886020)	◁	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(886021)	⊗	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(886013)	▷	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

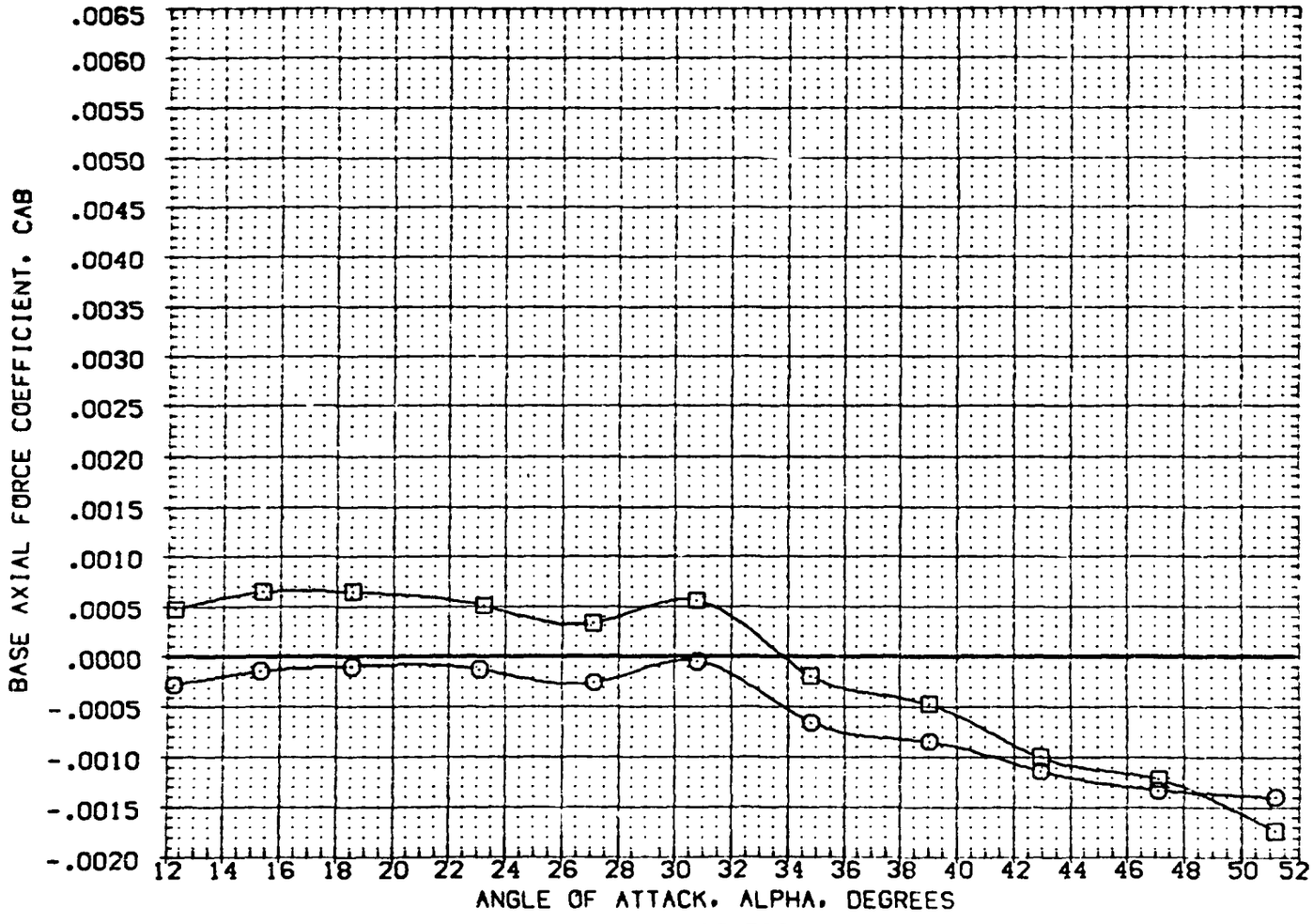


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

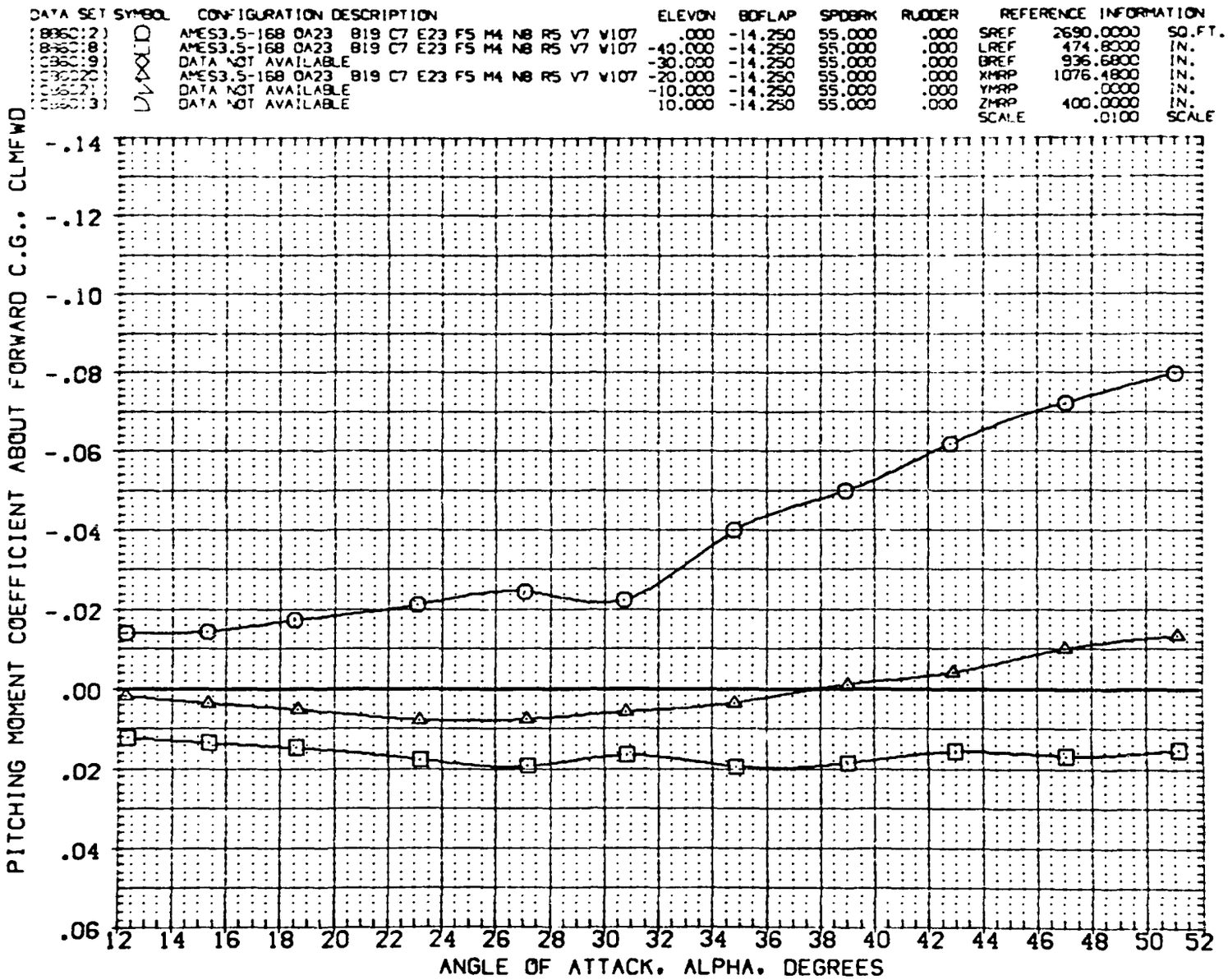


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

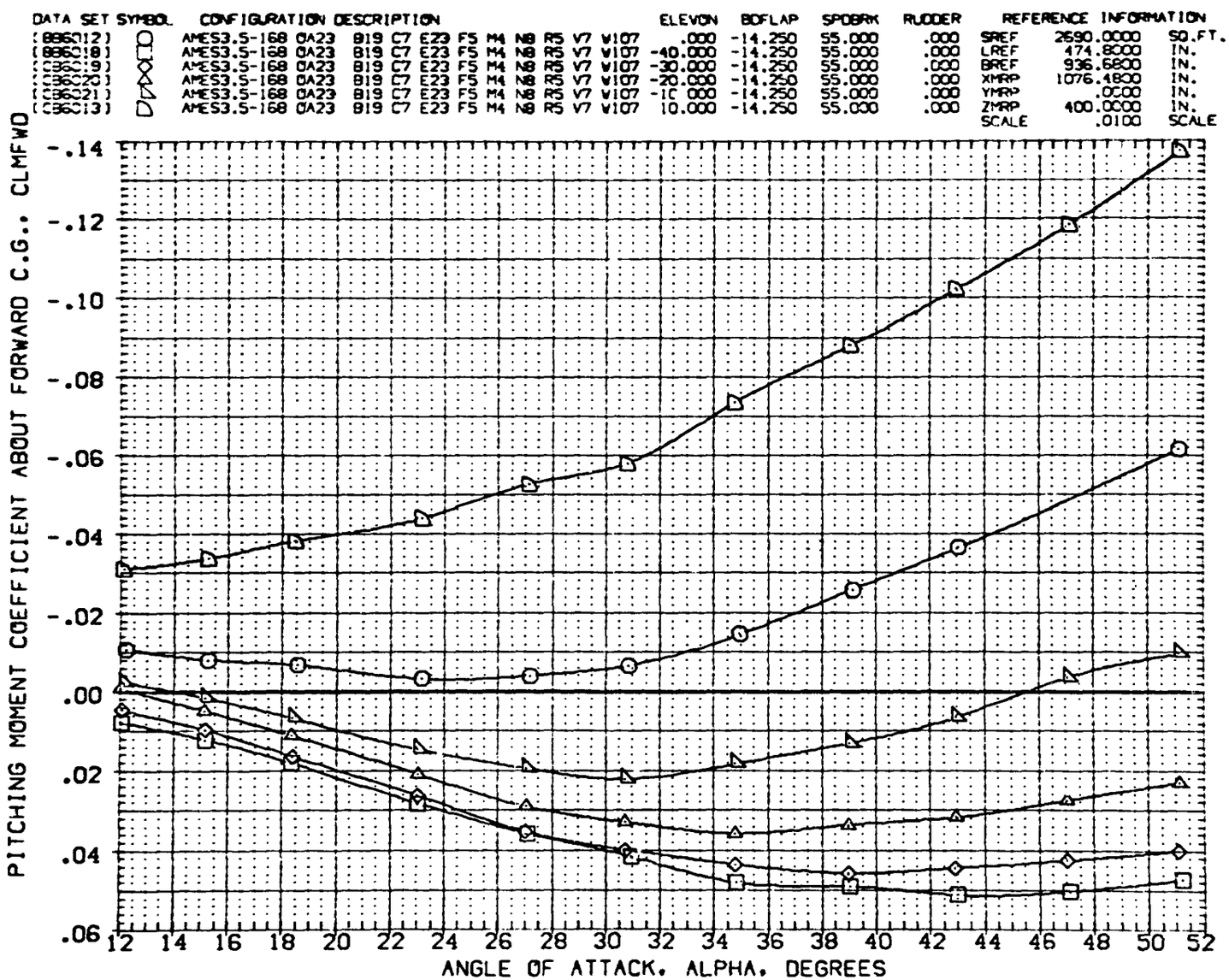


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(886012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(886018)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(886019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(886020)	△	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(886021)	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(886013)	⊠	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

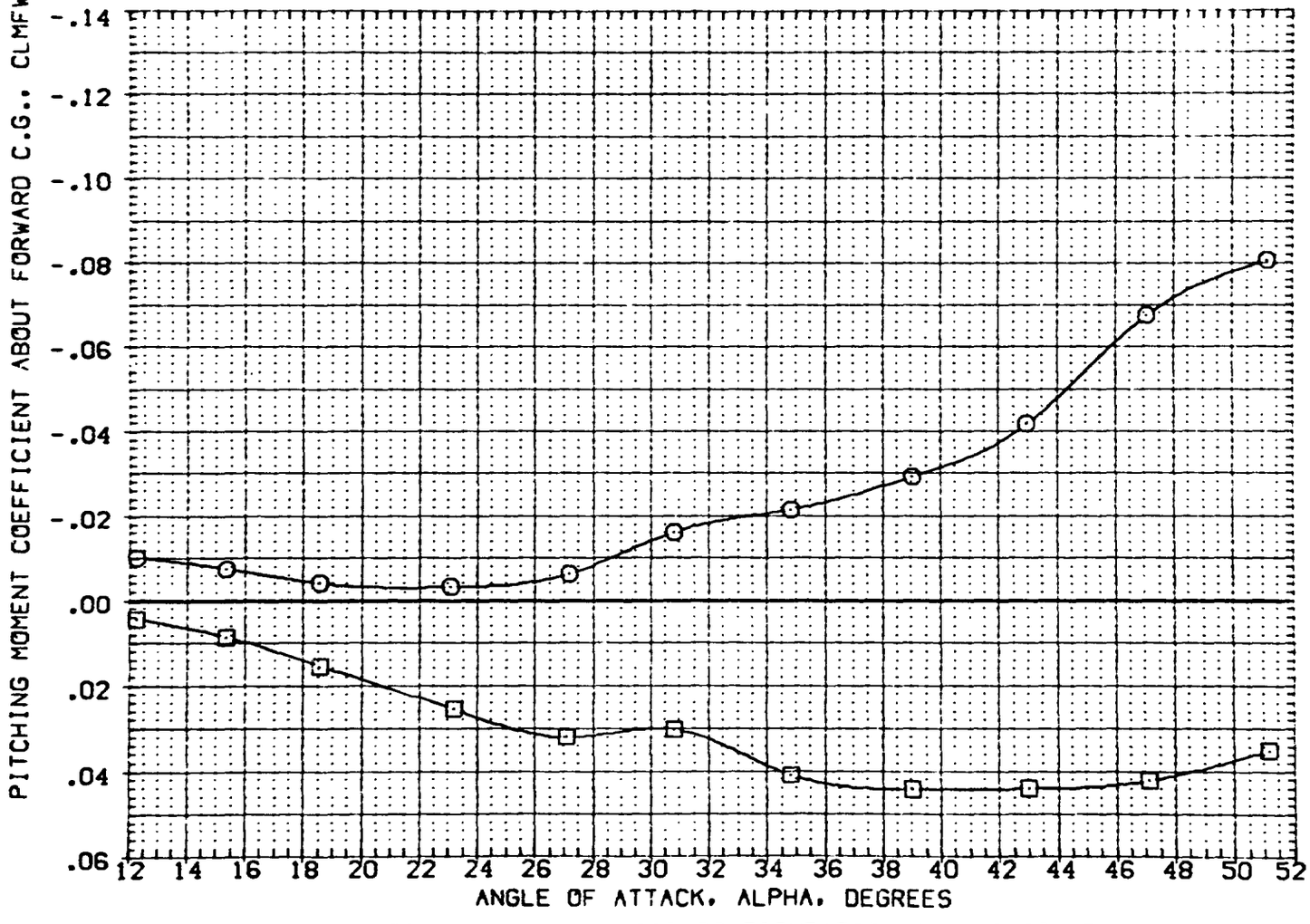


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
[886012]	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
[886018]	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
[CB6019]	△	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
[CB6020]	⊠	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1776.4800	IN.
[CB6021]	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
[CB6013]	⊠	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

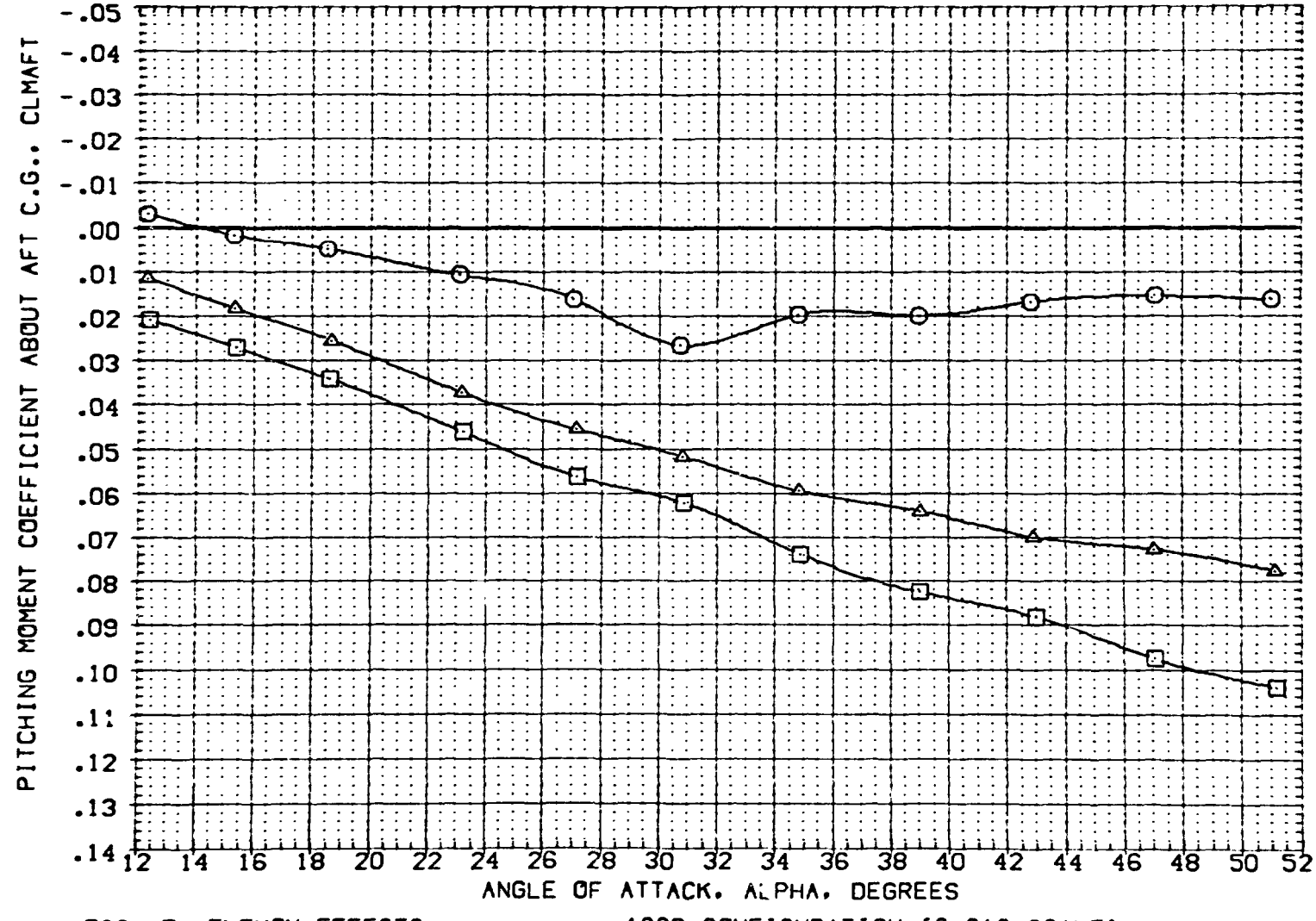


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
[836012]	○	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
[836018]	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
[836019]	◇	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000
[836020]	◇	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
[836021]	△	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000
[836013]	◁	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

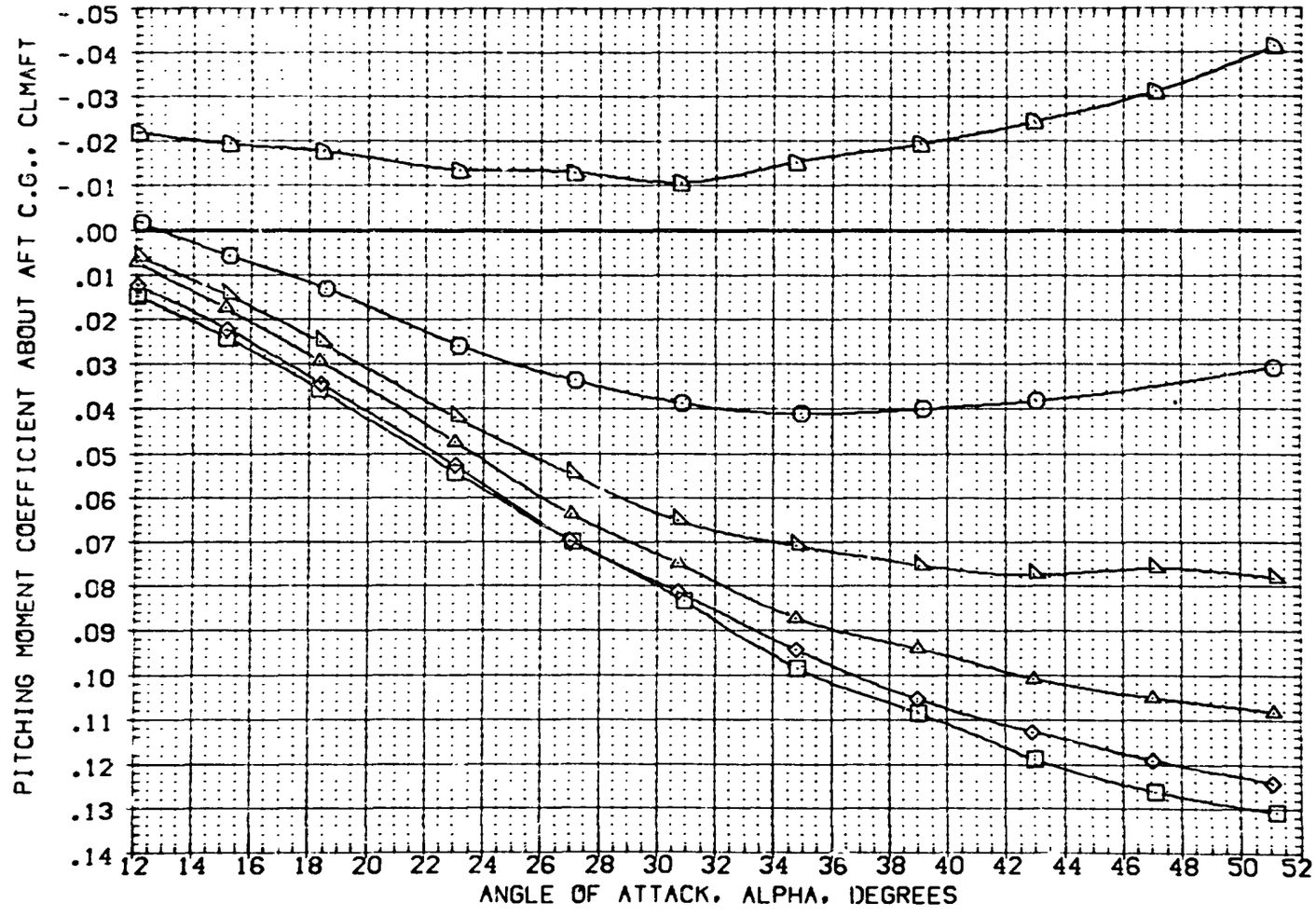


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BCFLAP	SPOBRK	RUDDER
(886012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(836018)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000
(C86019)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(C86020)	⊠	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(C86021)	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(C86013)	△	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

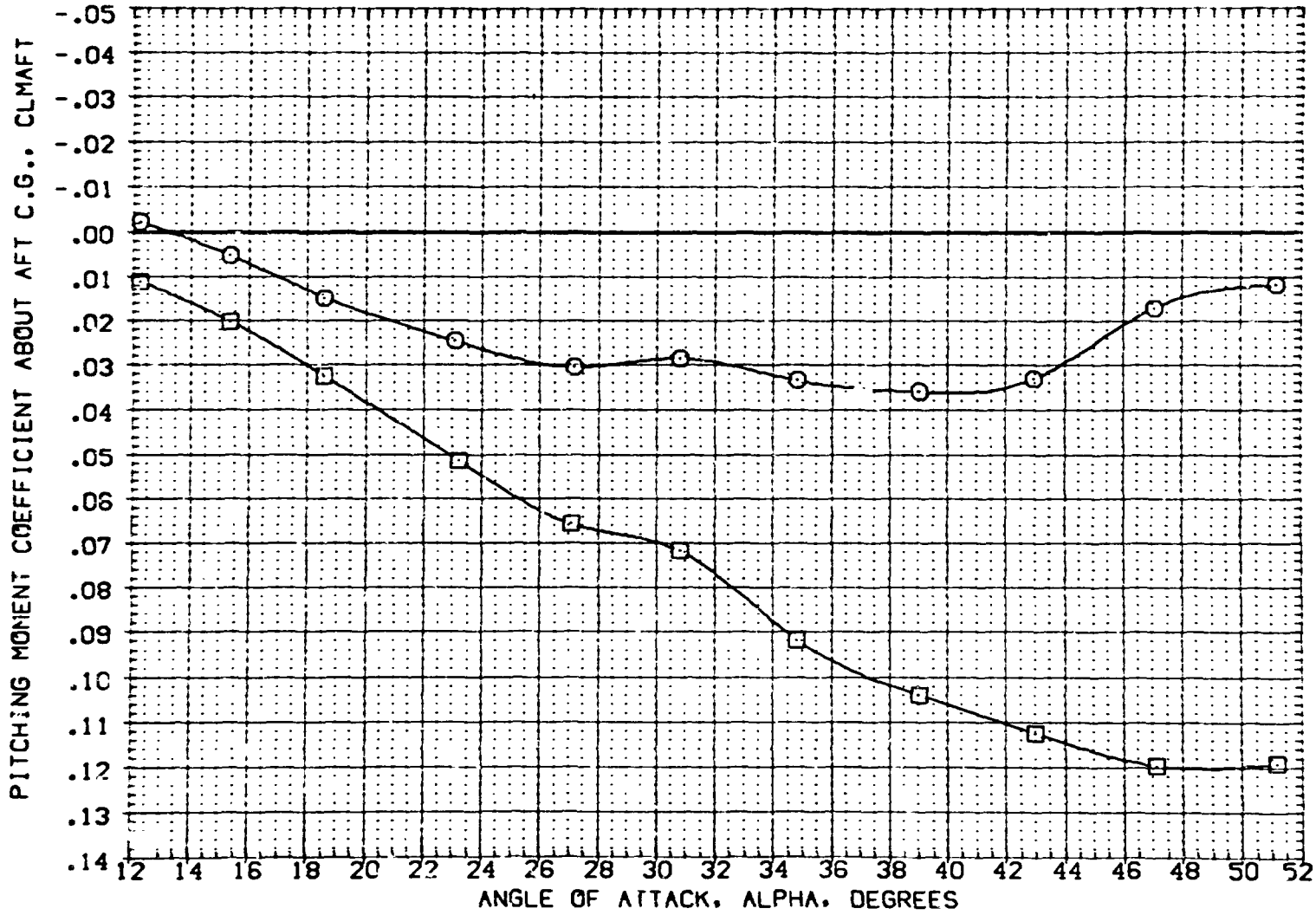


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(8860:2)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(8860:8)	◇	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(8860:9)	△	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(8860:20)	▽	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(8860:21)	◁	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(8860:13)	▷	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

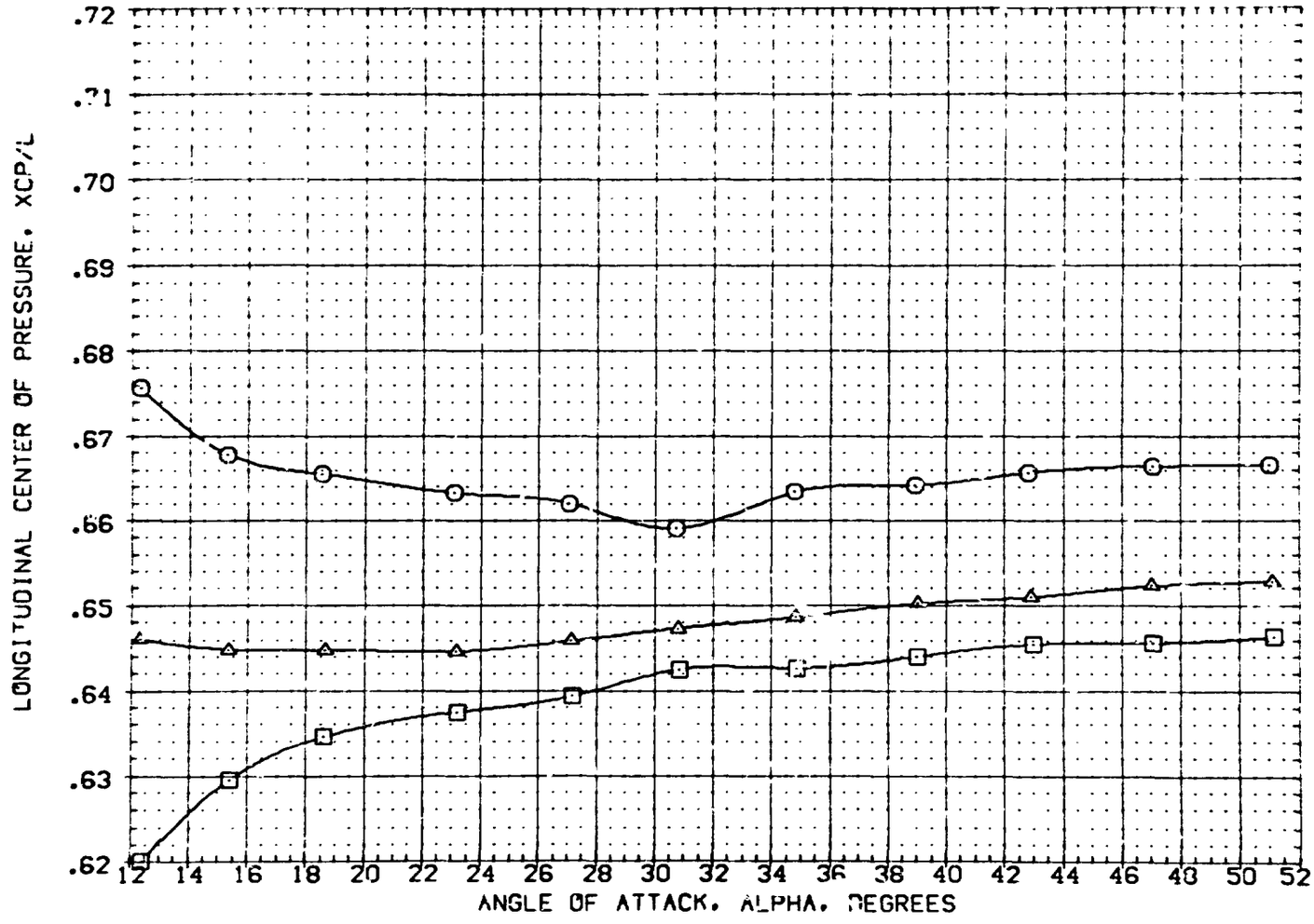


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOILER	RUDDER	REFERENCE INFORMATION		
[illegible]	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
[illegible]	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
[illegible]	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
[illegible]	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
[illegible]	▽	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
[illegible]	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

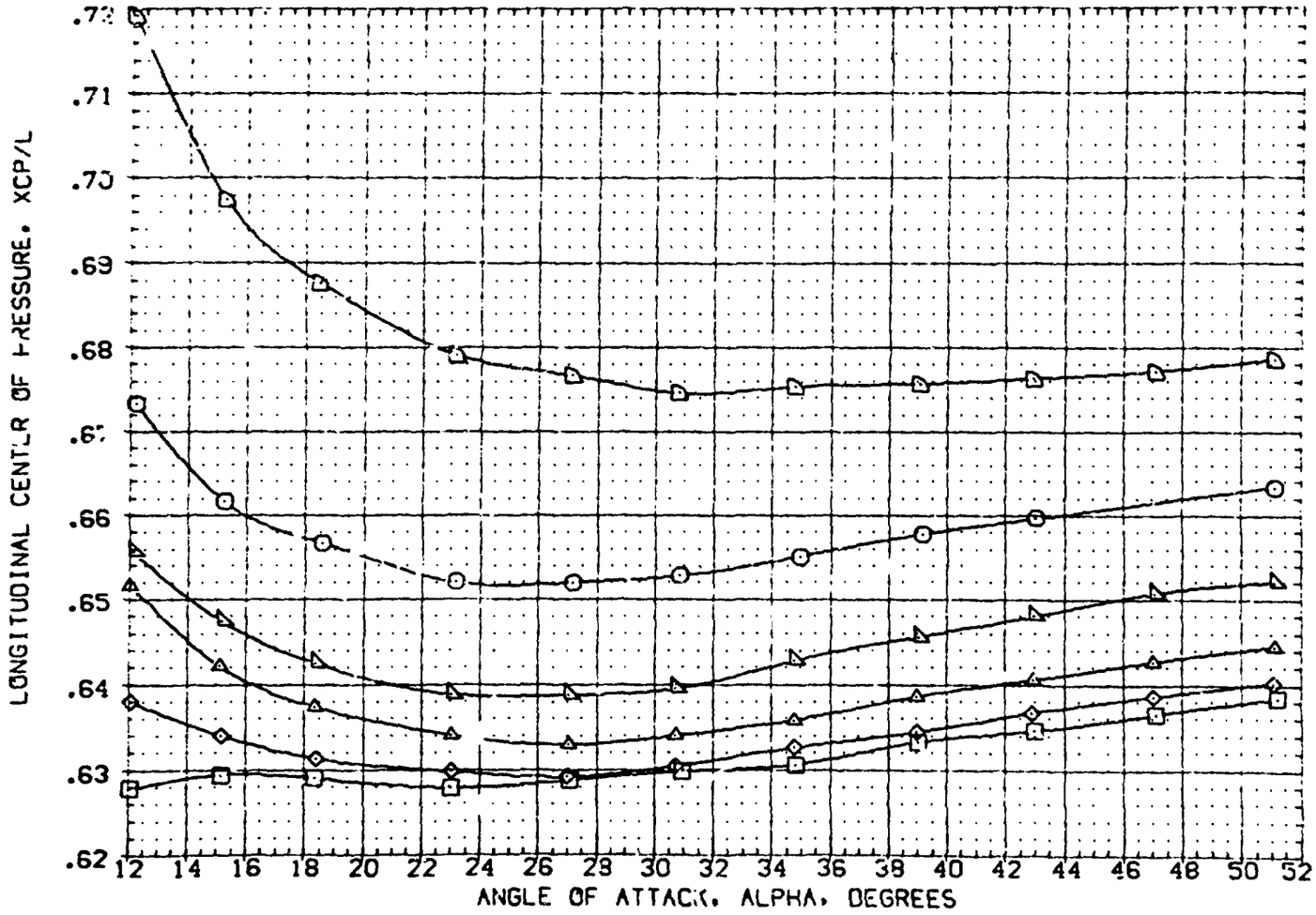


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
(8960:2)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(8960:8)	◇	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(8960:9)	⊠	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(8960:20)	⊗	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(8960:21)	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(8960:3)	◁	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

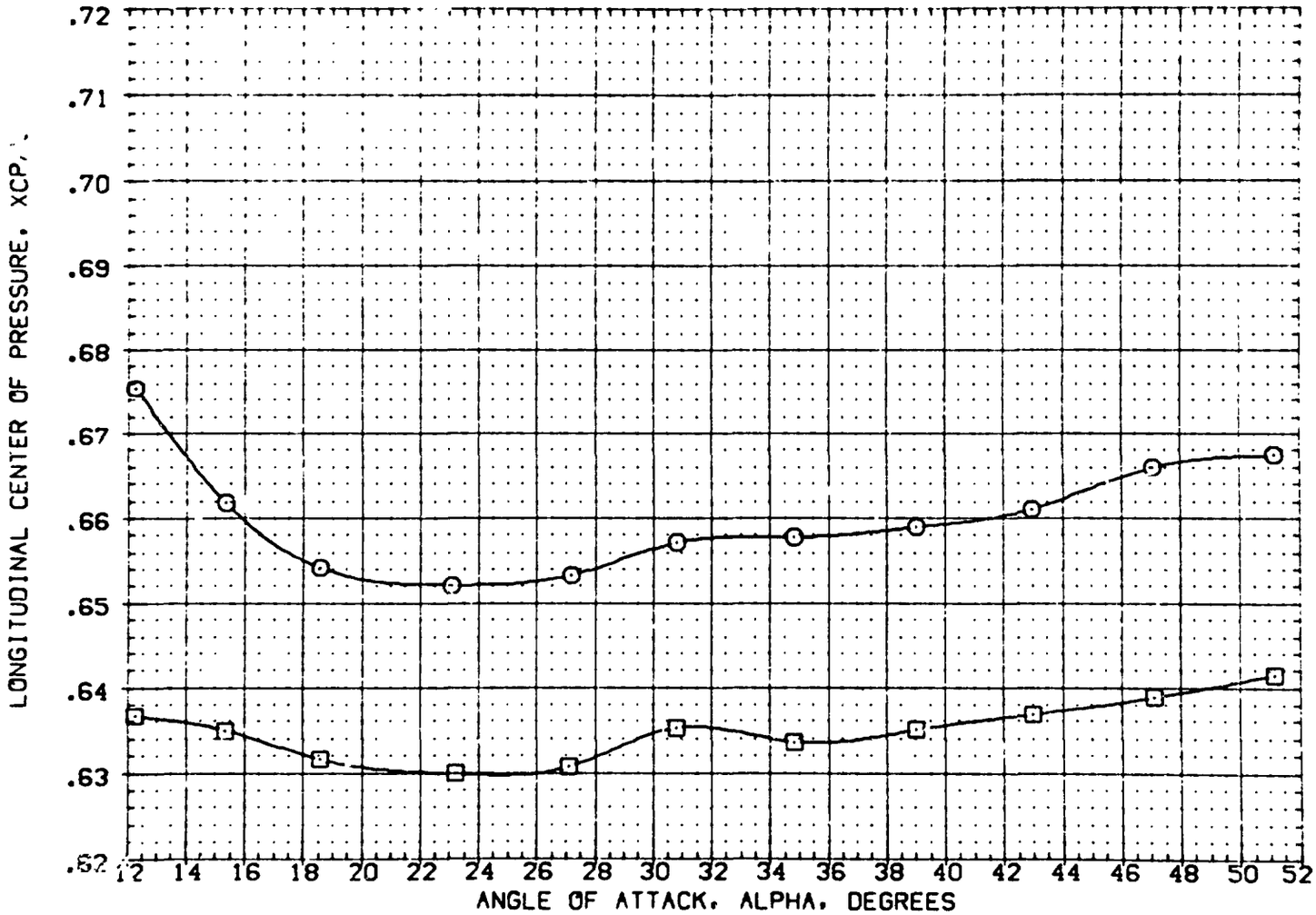


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(986012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(986018)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(986019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(986020)	▽	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(986021)	☐	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(986013)	⬡	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BRLF	936.6800	IN.
XMRP	1076.1800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

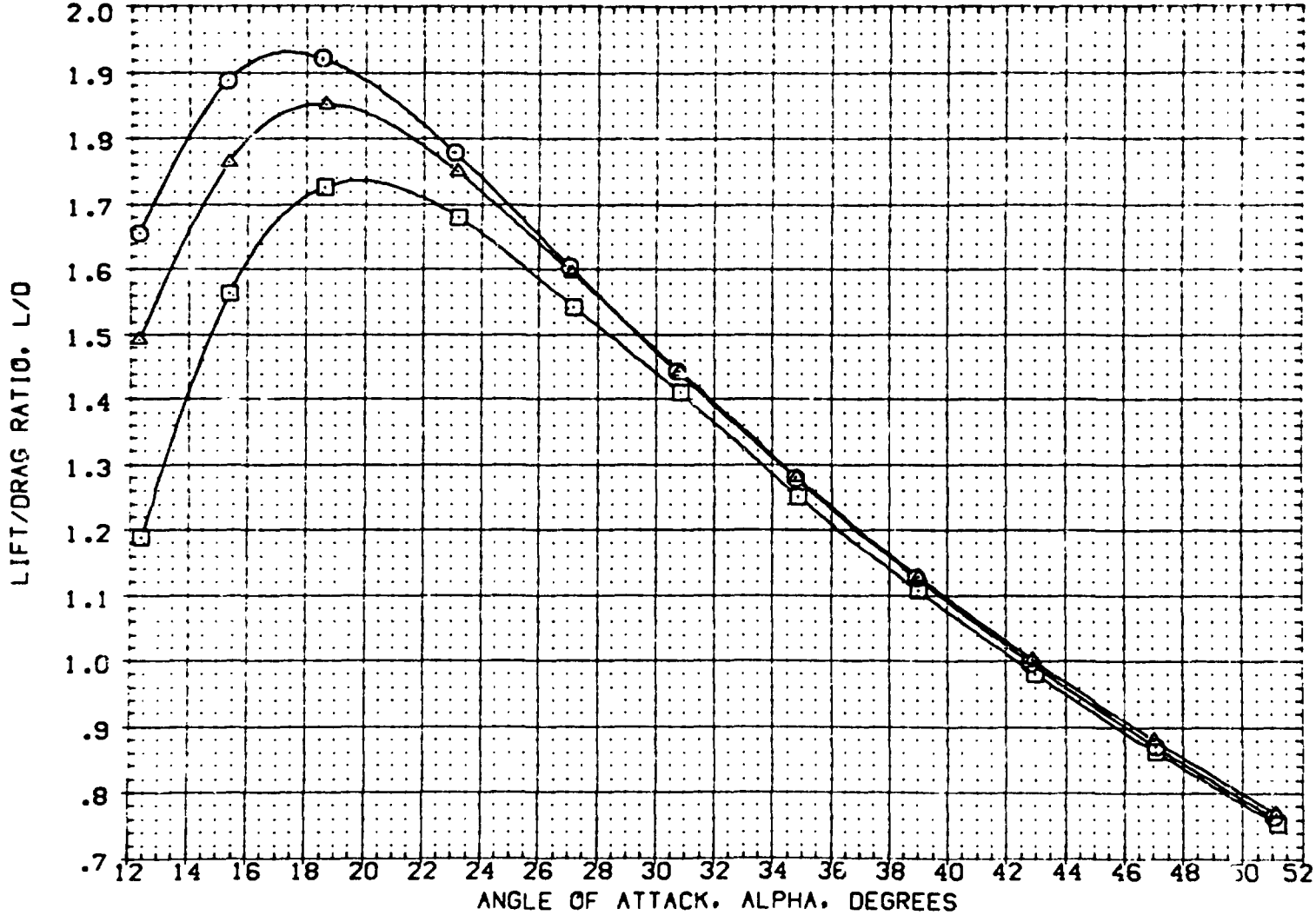


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

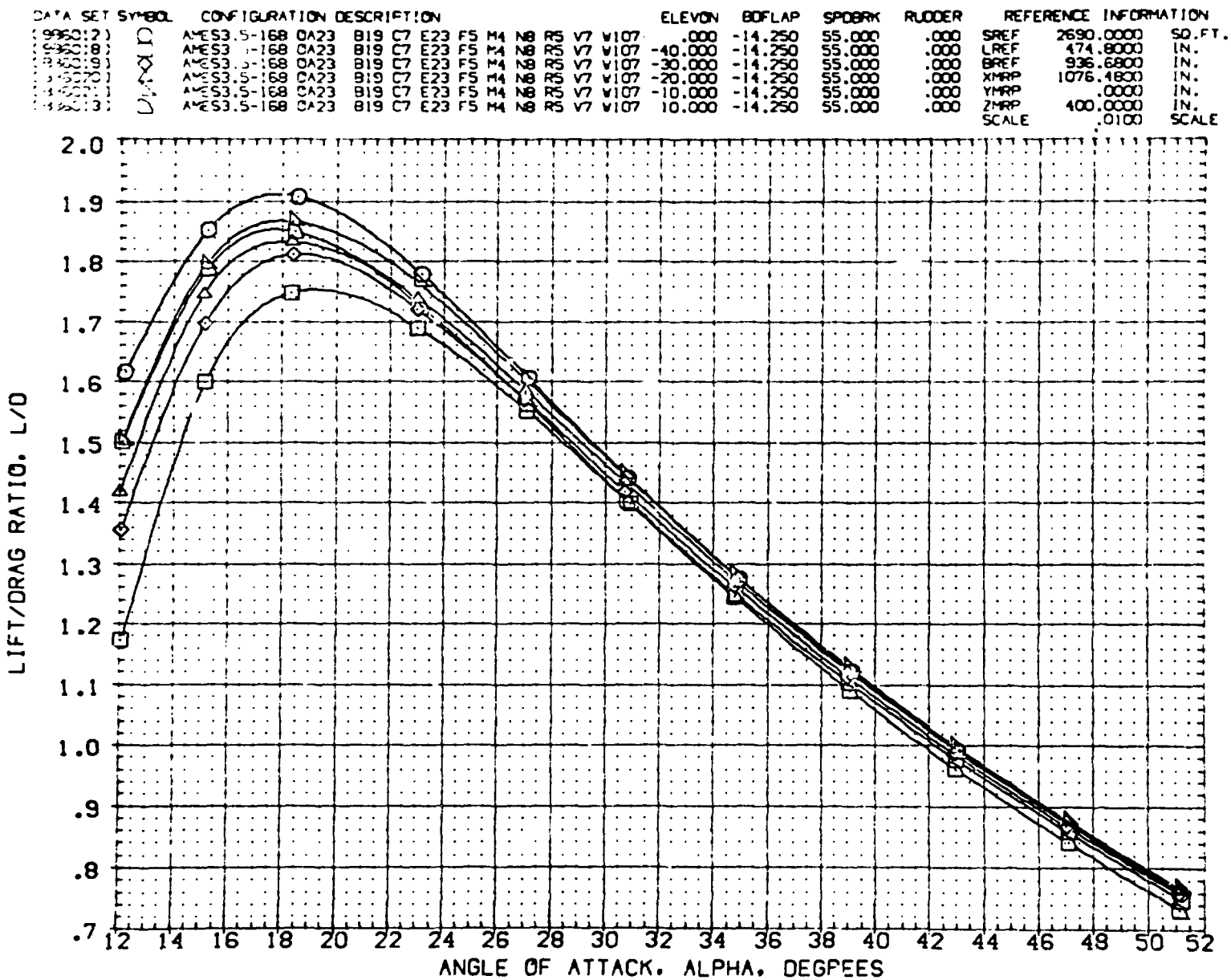


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOILR	RUDDER	REFERENCE INFORMATION		
(9860:2)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(9860:8)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(9860:9)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(9860:0)		DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(9860:1)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(9860:3)		DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

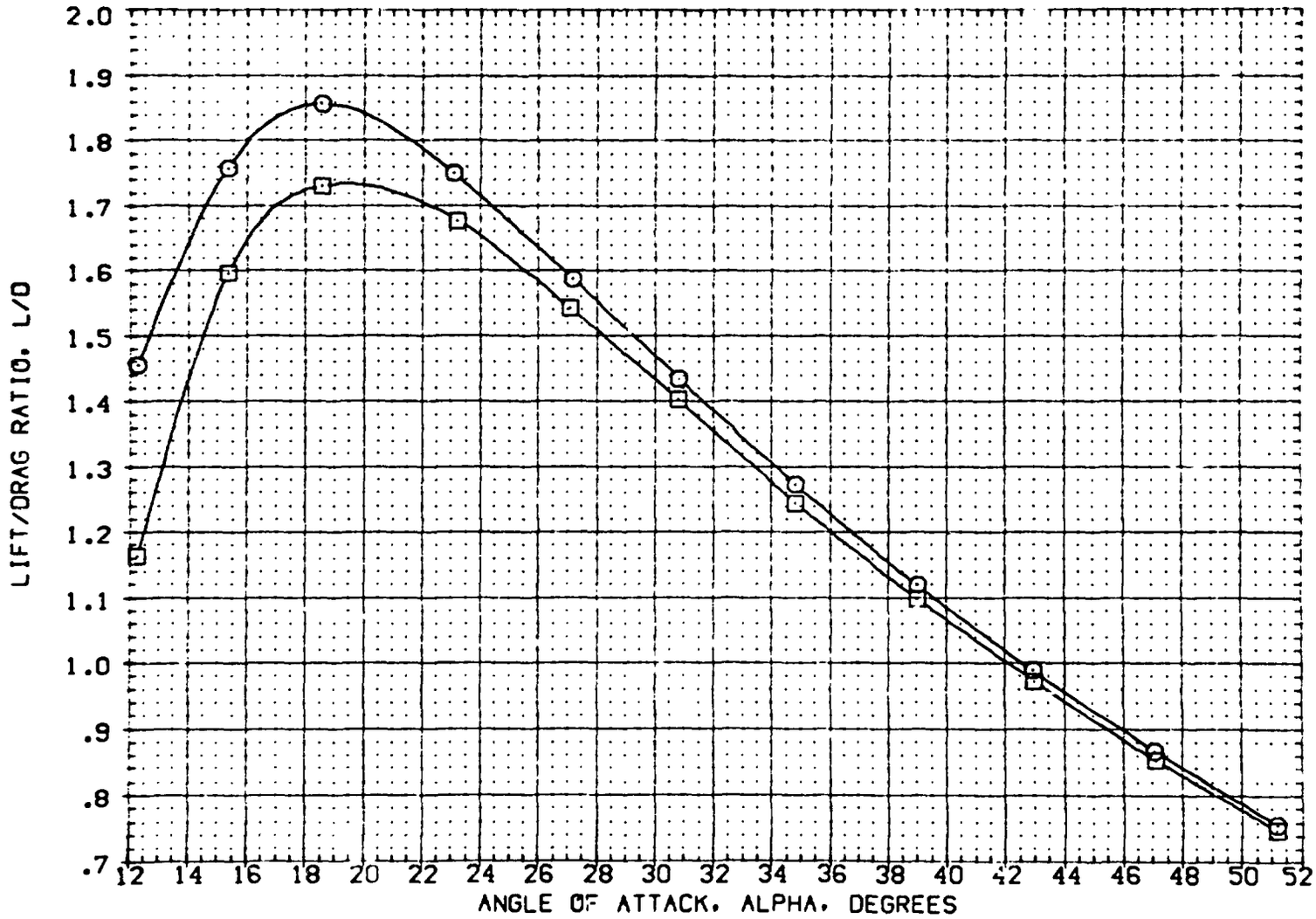


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
[836012]	□	AMES3.5-.68 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
[836018]	◇	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
[836019]		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
[836020]	☆	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
[836021]	▷	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
[836013]	△	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

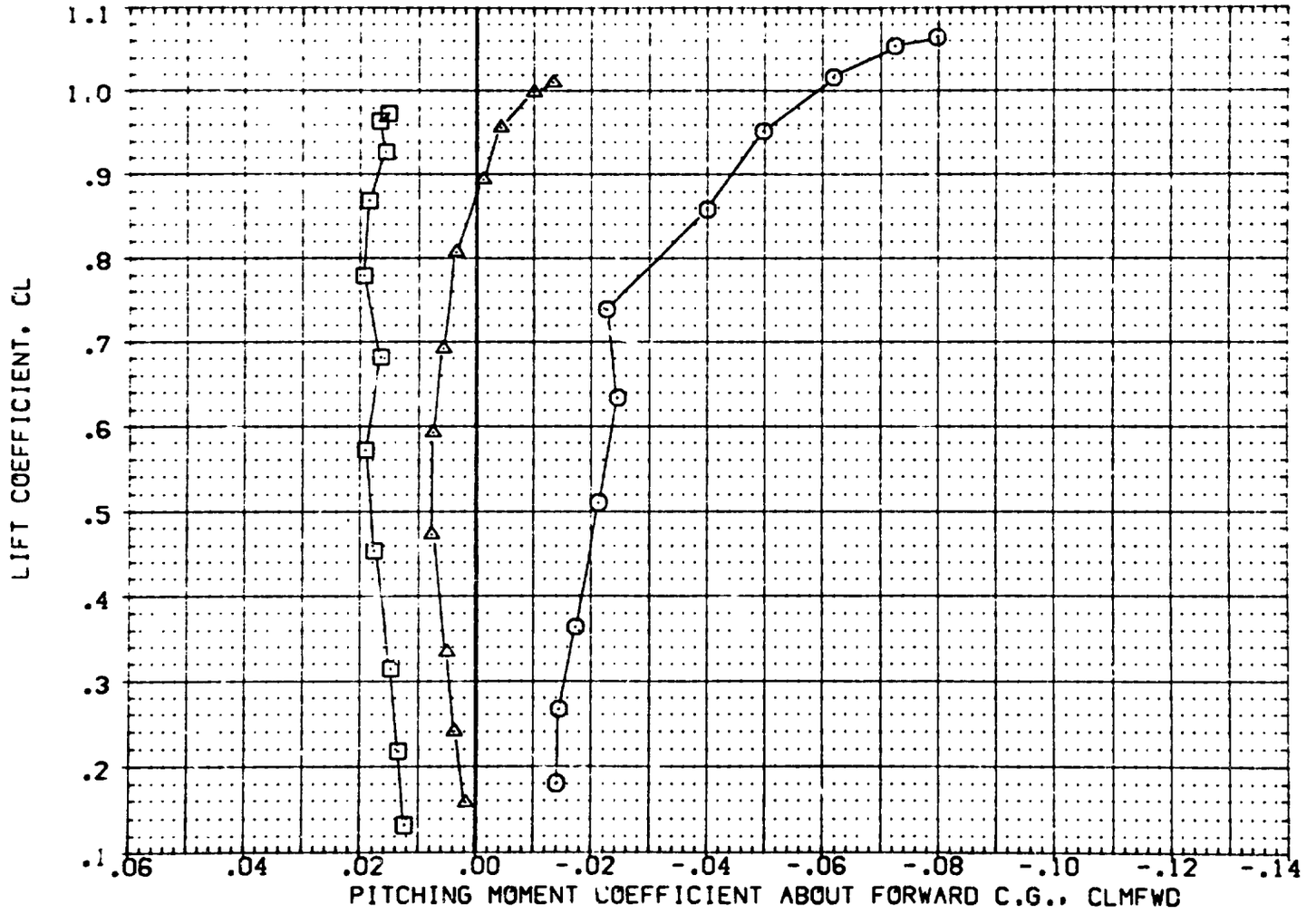


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
(B860I2)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(B860I8)	◇	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(B860I9)	△	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(B860J0)	○	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(B860J1)	⊠	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(B860J3)	⊠	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

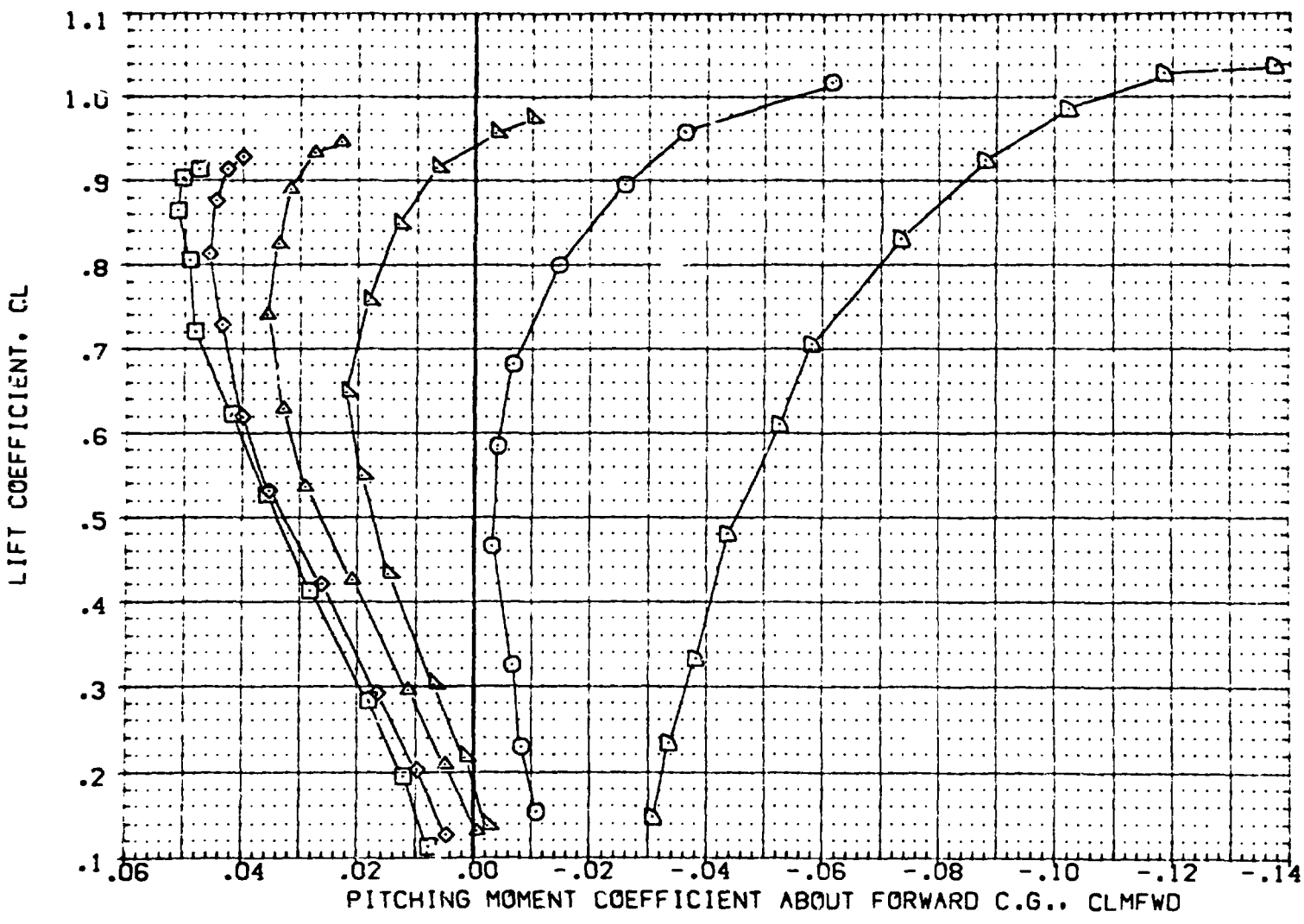


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
[illegible]	□	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
[illegible]	◇	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
[illegible]	△	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
[illegible]	▽	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
[illegible]	⊲	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
[illegible]	⊳	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

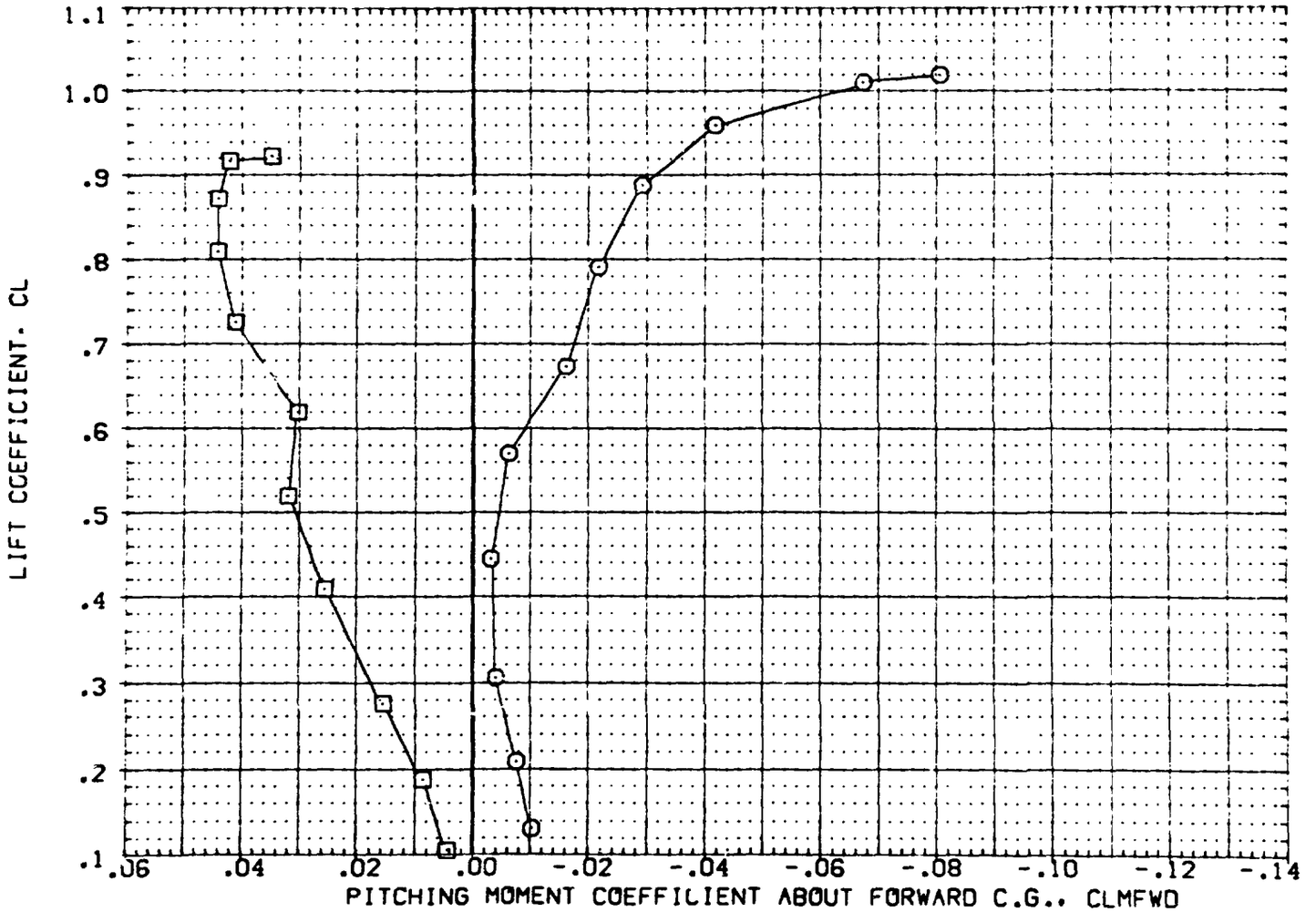


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(886012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(886018)	◇	AMES3.5-166 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(C86019)	△	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(C86020)	▽	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(C8602:)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(C36013)		DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

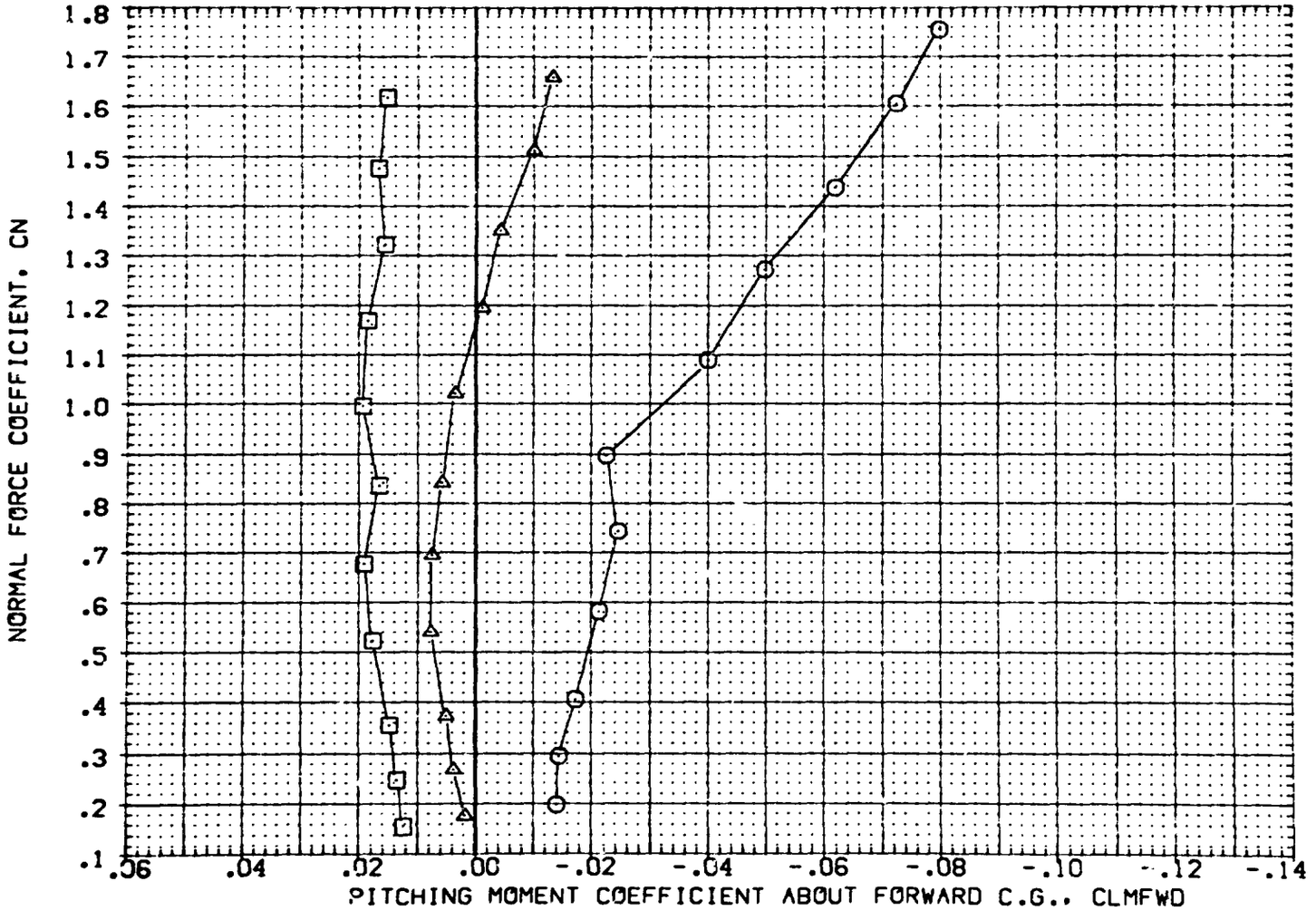


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(886012)	□	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(886018)	◇	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(886019)	◇	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(886020)	△	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(886021)	△	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(886013)	▽	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

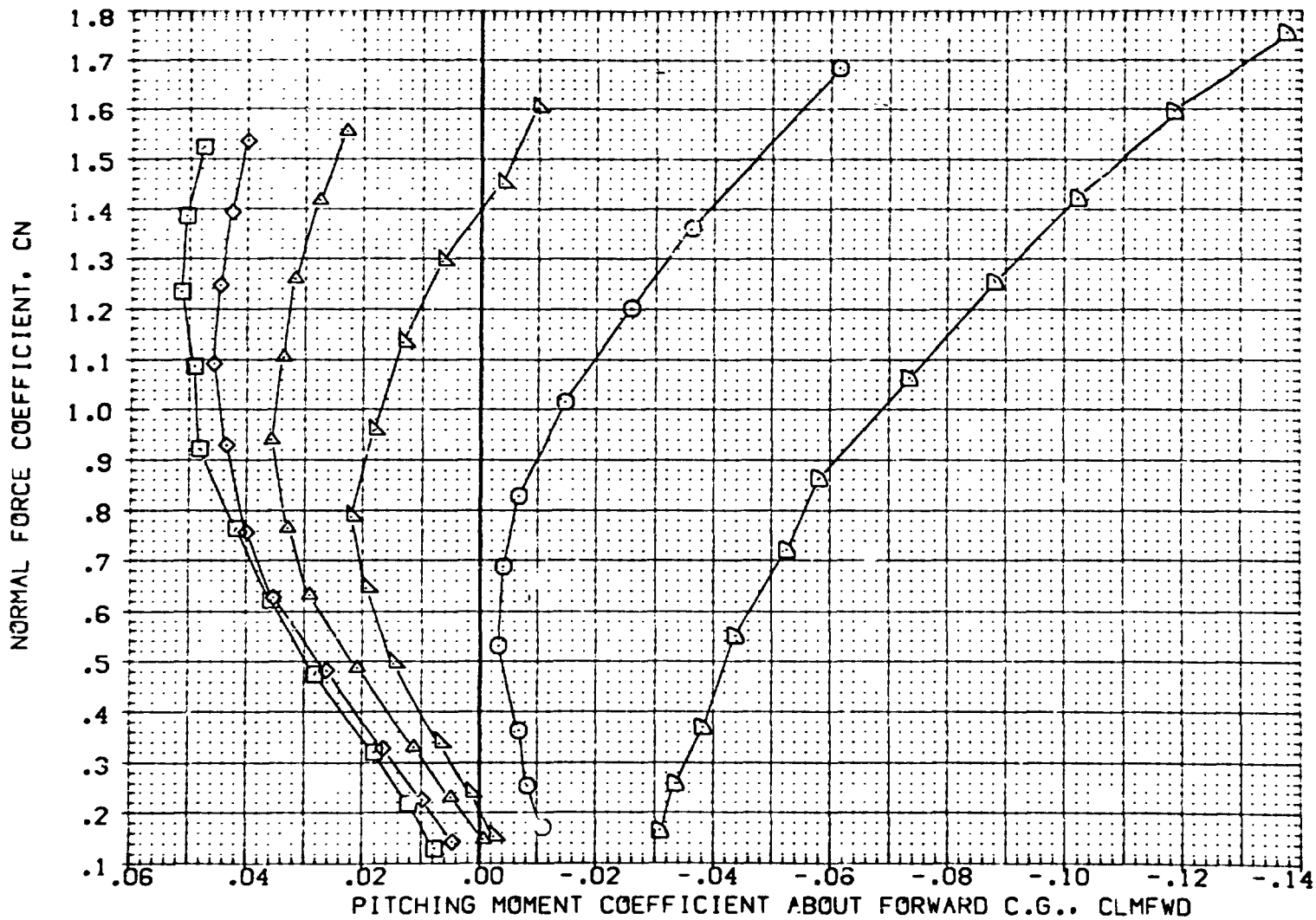


FIG. 7 ELEVON EFFECTS i39B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
[B96012]	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
[B96018]	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
[CB6019]	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
[CB6020]	⋈	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
[CB6021]	◁	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
[CB6017]	D	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

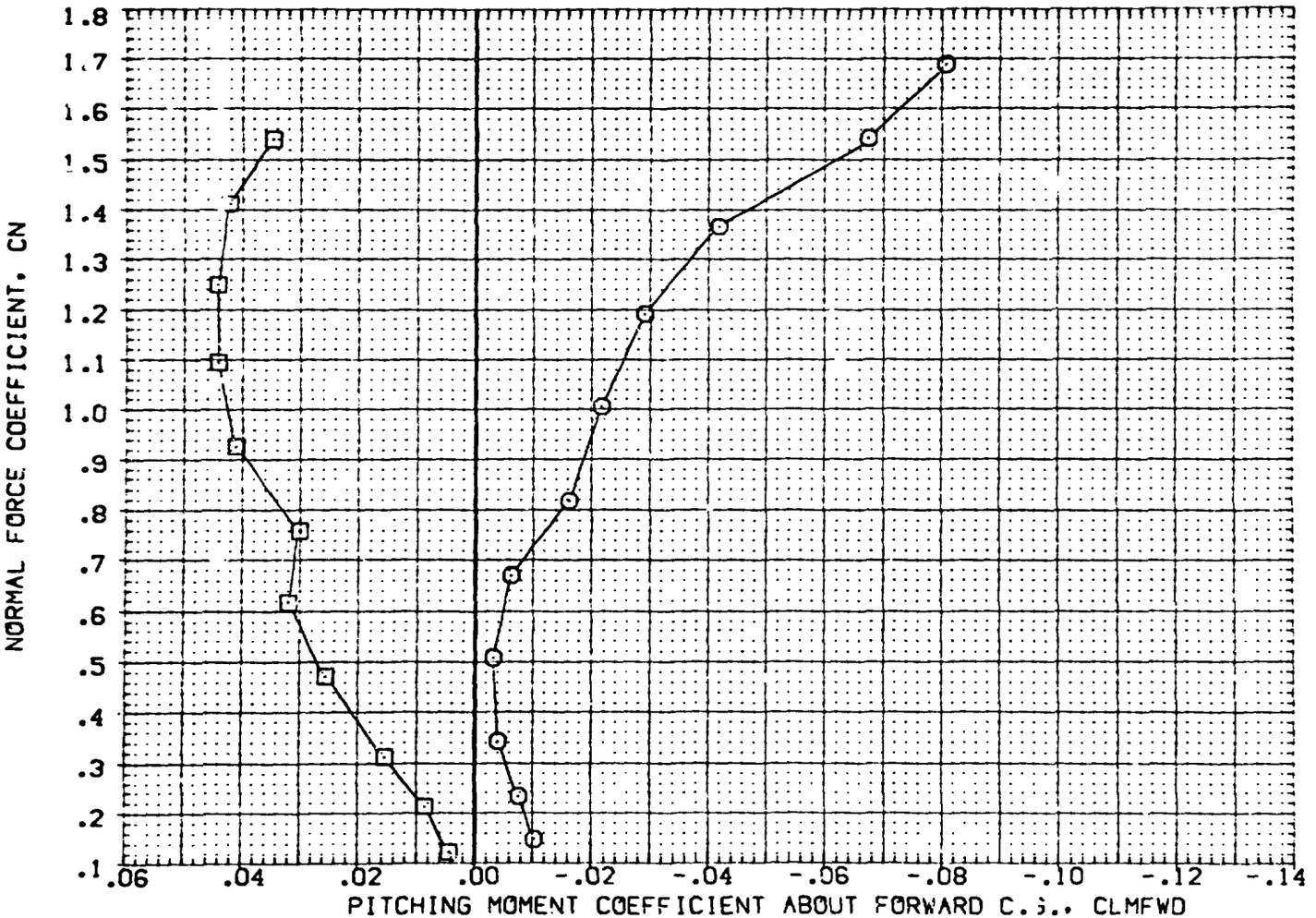


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(886C12)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(886C18)	◇	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(886C19)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(886C20)	△	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(886C21)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(886C13)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

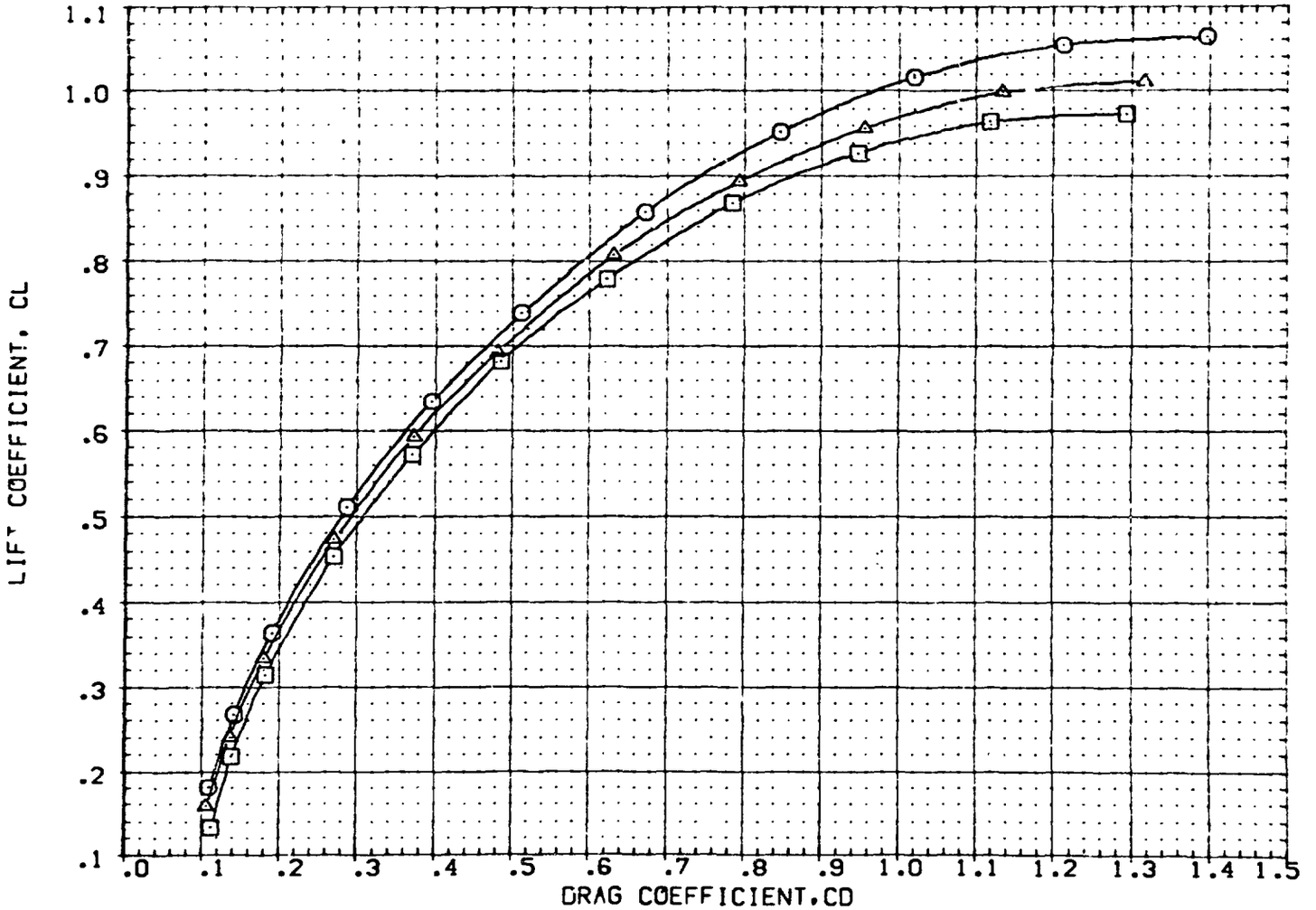


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(B96012)	□	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(B96018)	◇	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF	474.8000	IN.
(B96019)	△	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(B96020)	▷	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(B96021)	○	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000	YMRP	.0000	IN.
(B96013)	▽	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000	ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

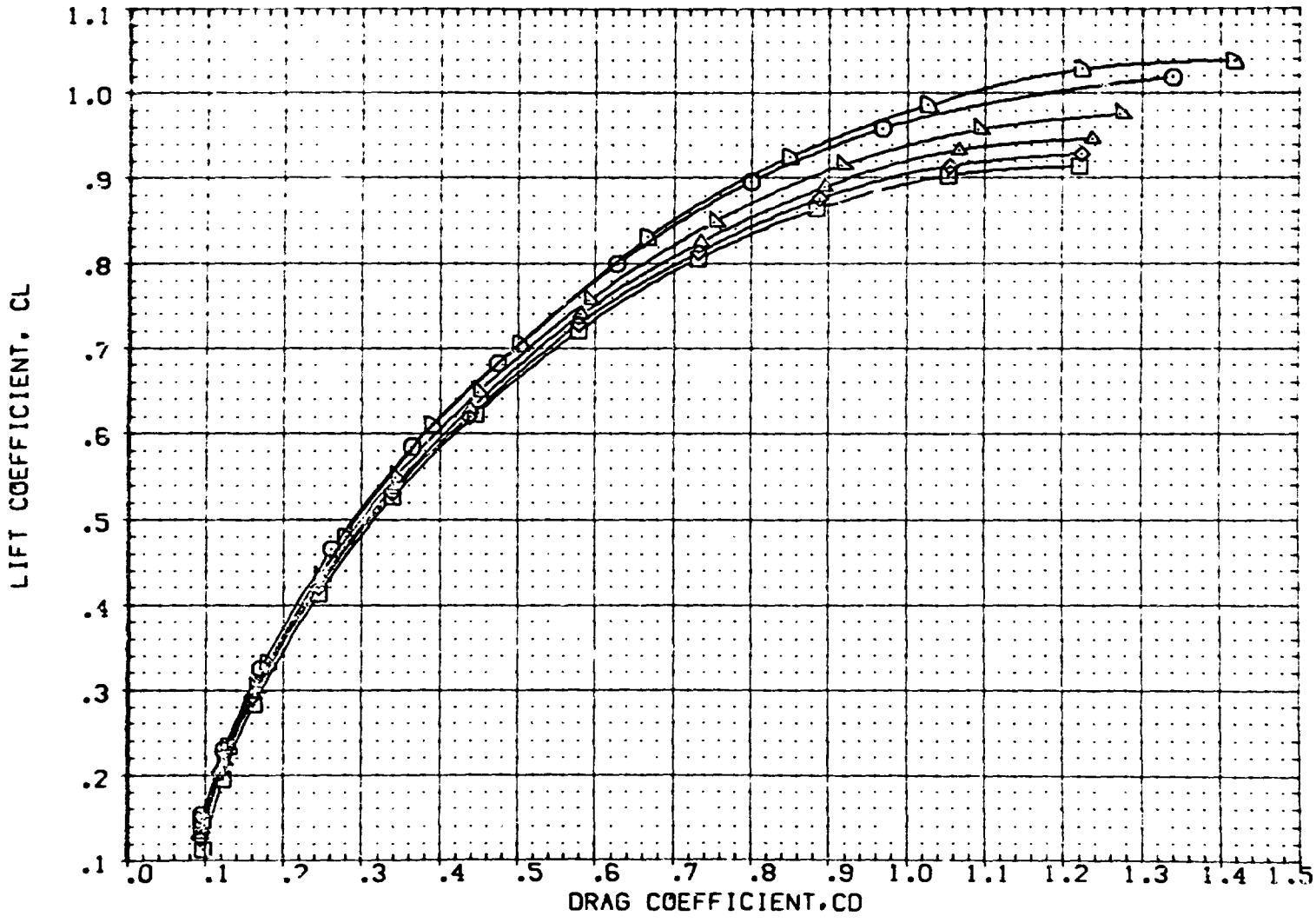


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(8360:2)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(8360:8)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(C860:9)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(C860:0)		DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(C86021)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(C8601:)		DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.010	SCALE

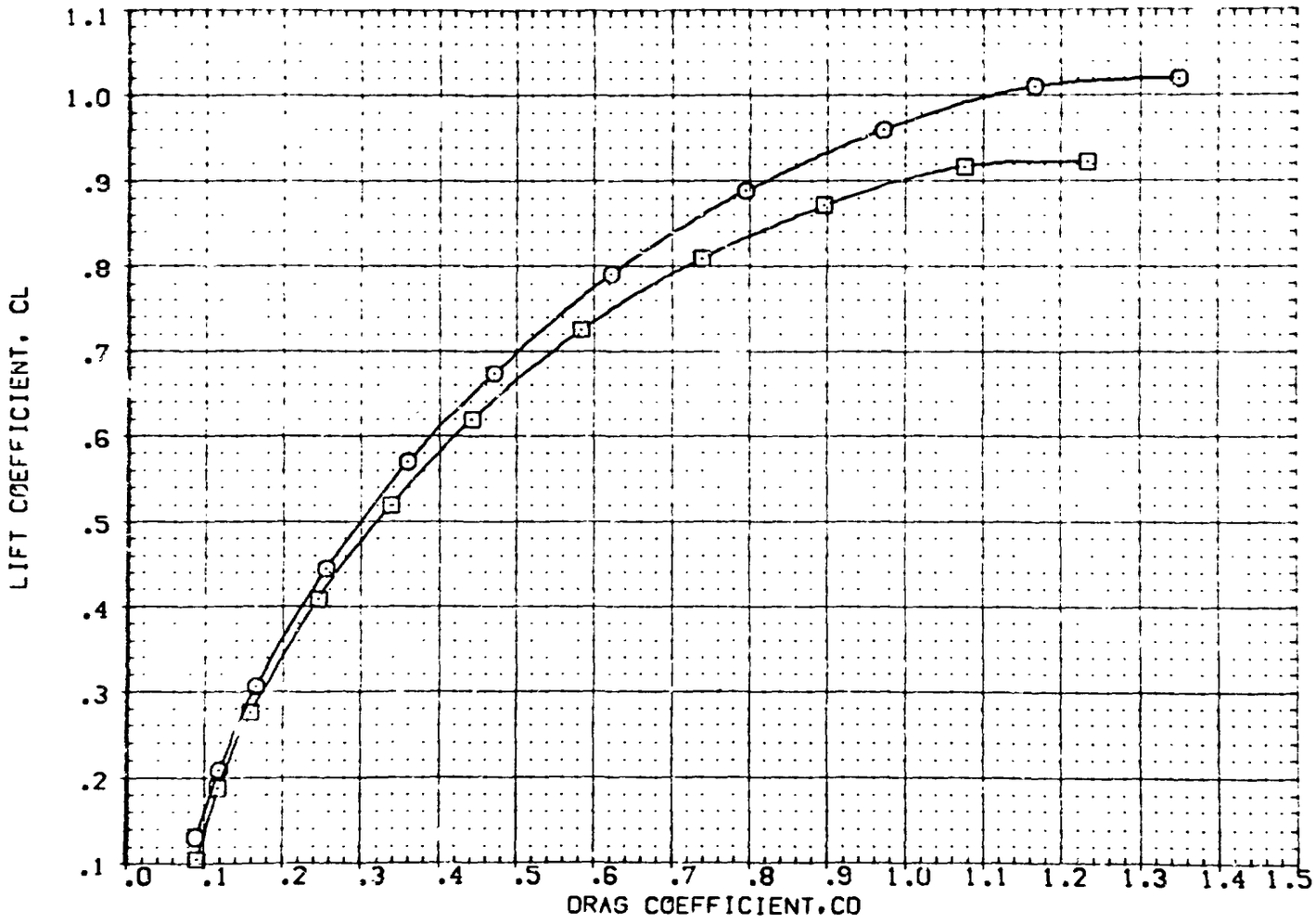


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(C86011)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000
(C86015)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

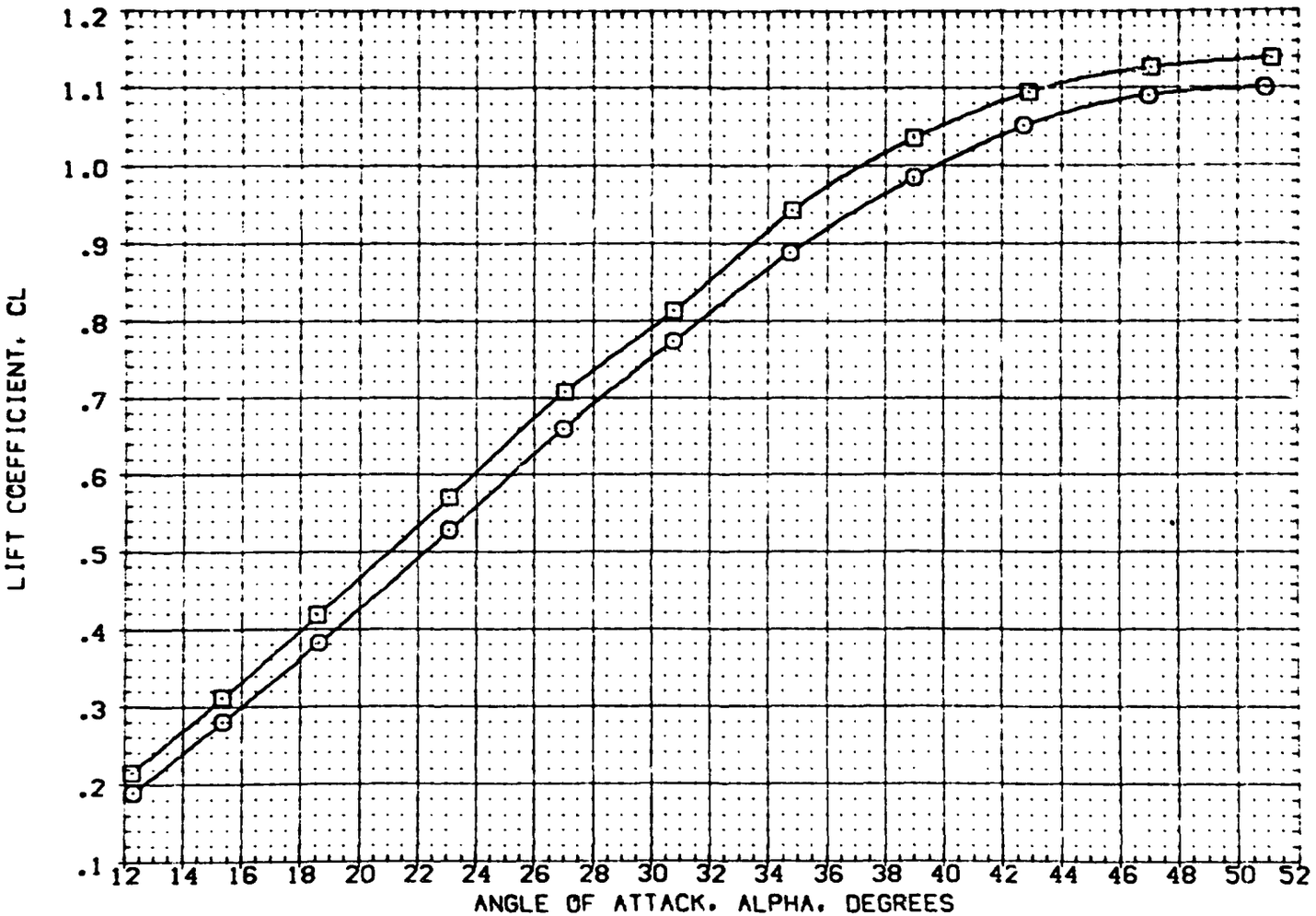


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(C960:1)	○	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(C960:5)	□	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

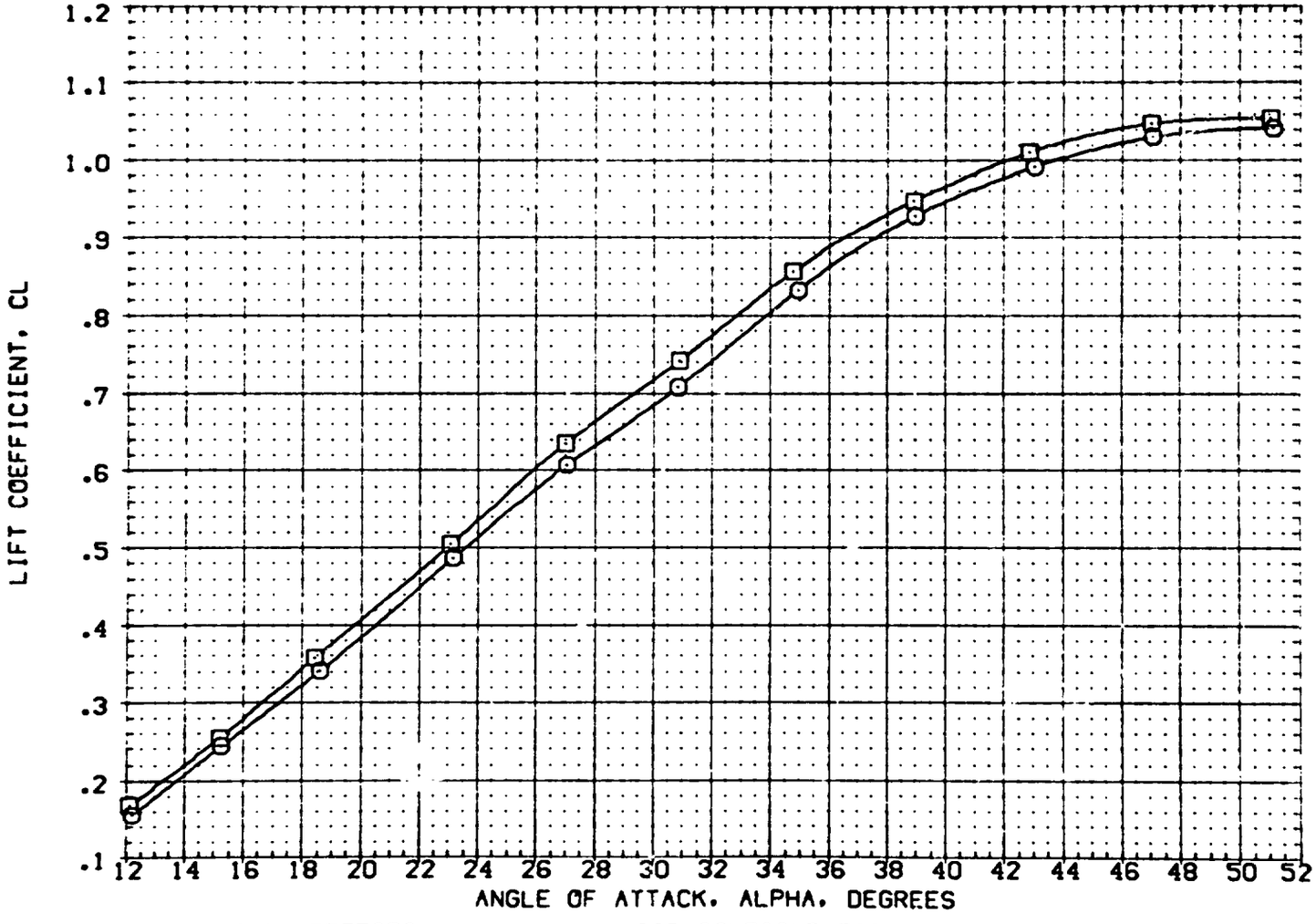


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6011)		AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000
(CB6015)		AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	1690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

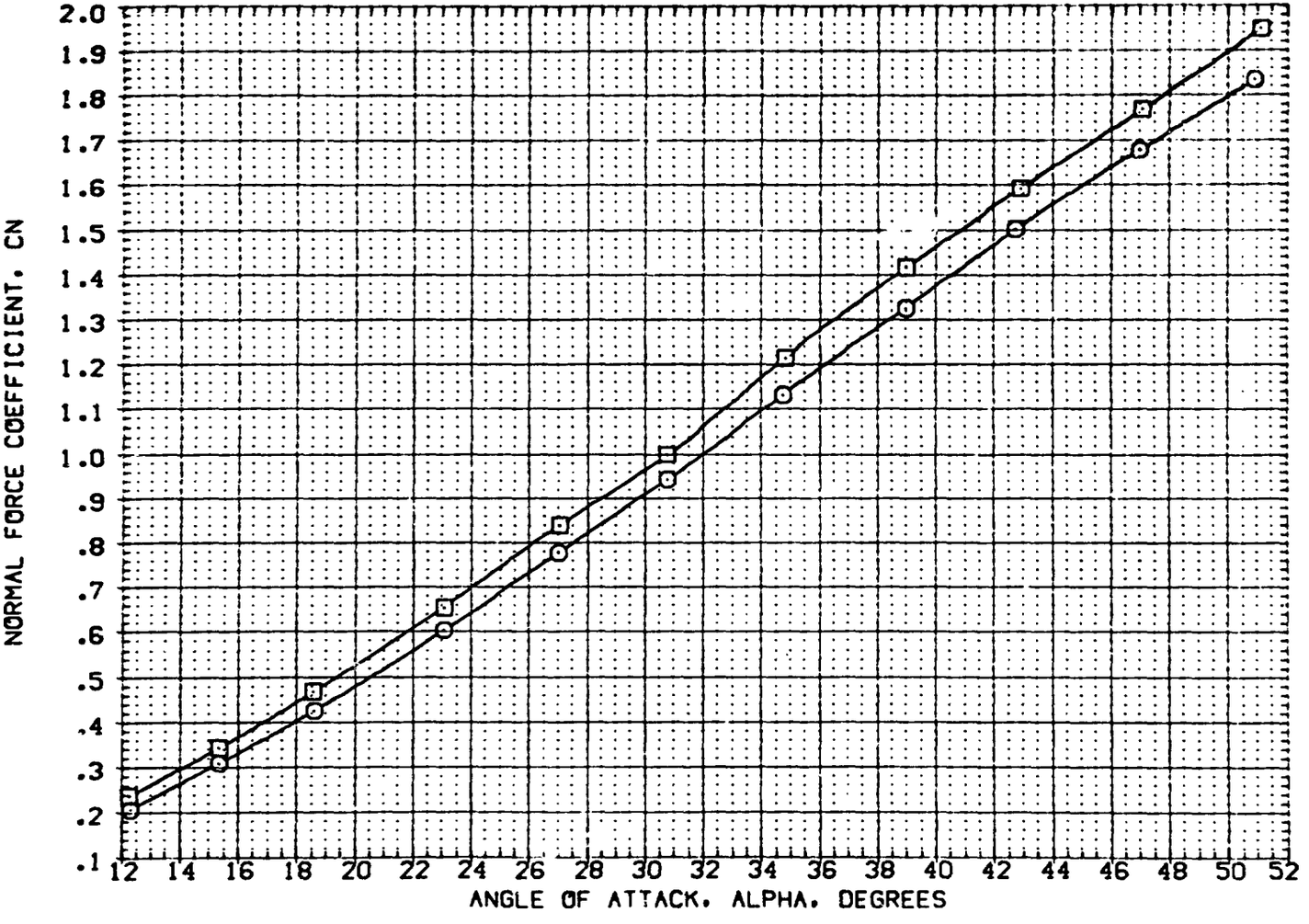


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6C:1)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(CB6C:5)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

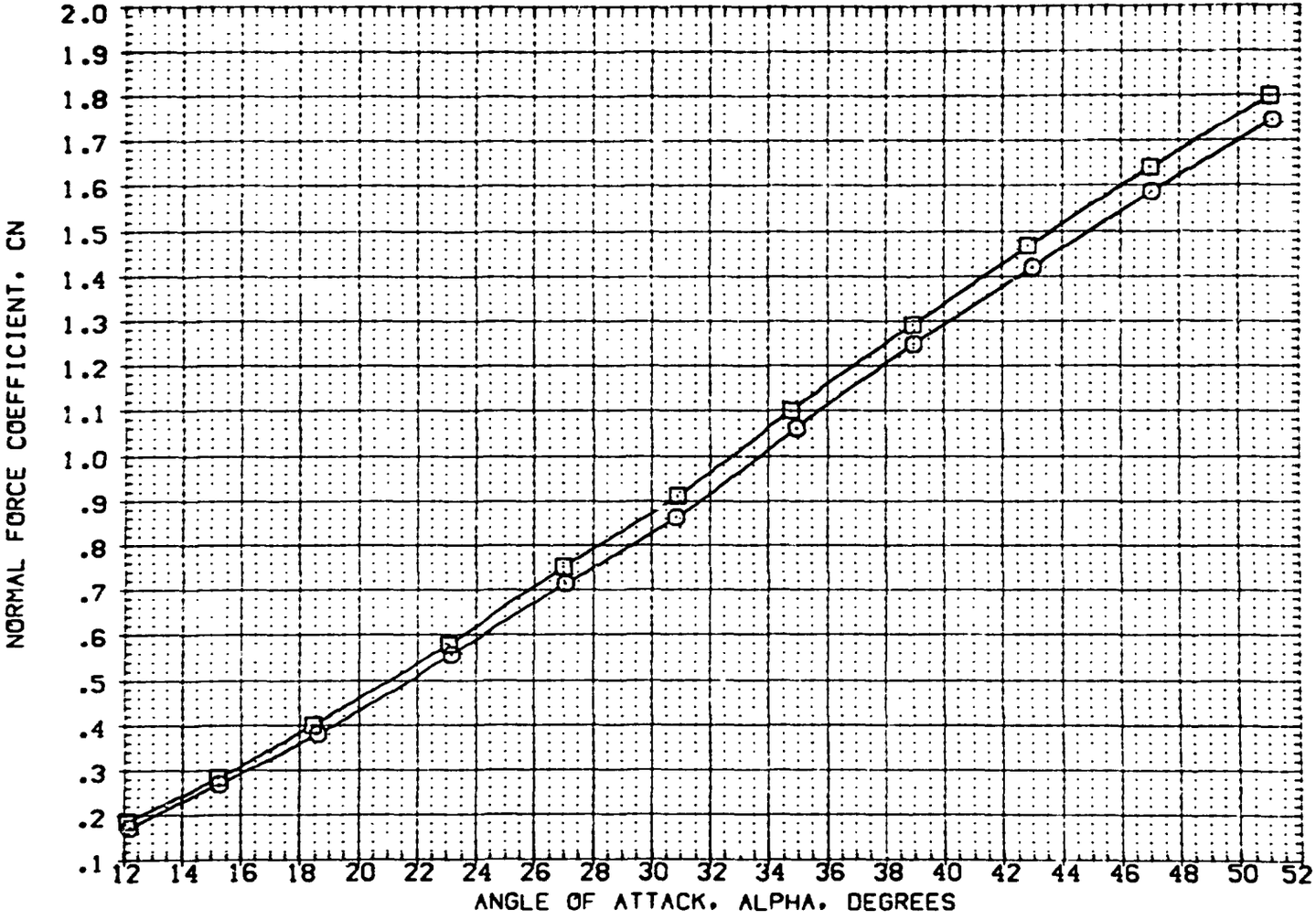


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6011)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(CB6015)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

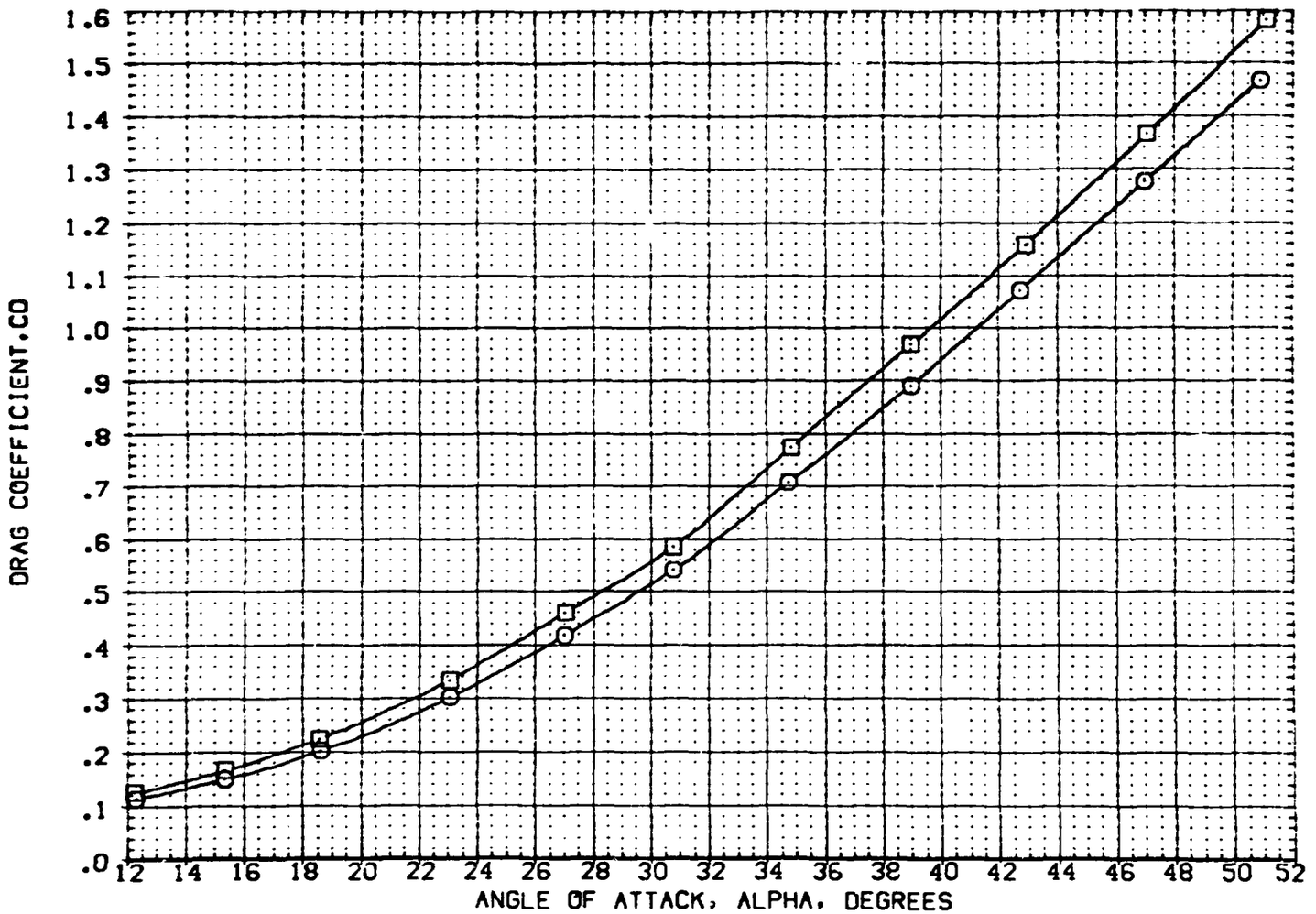


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
[CB601]	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
[CB601S]	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

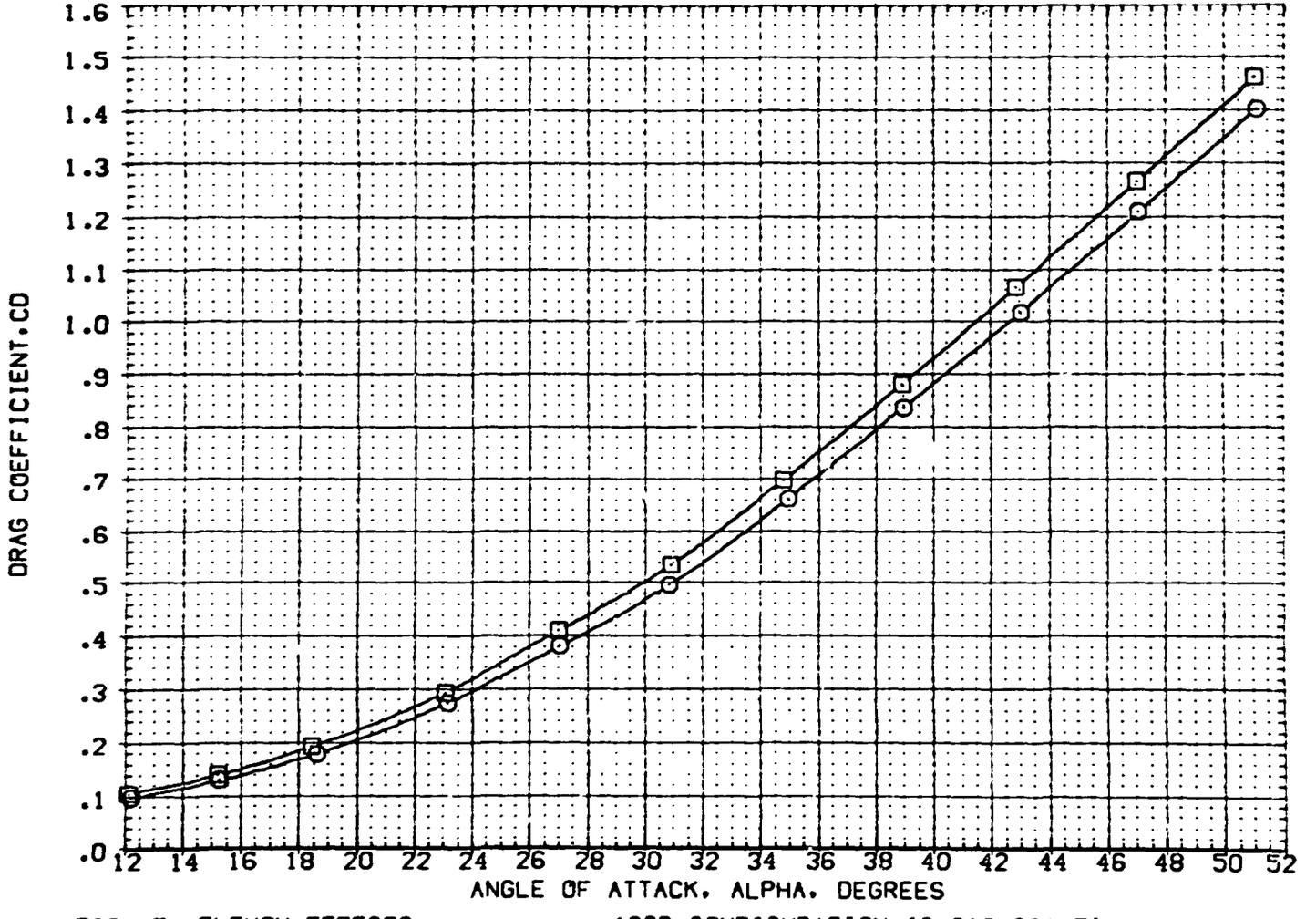


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB601:1)	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000
(CB601S)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

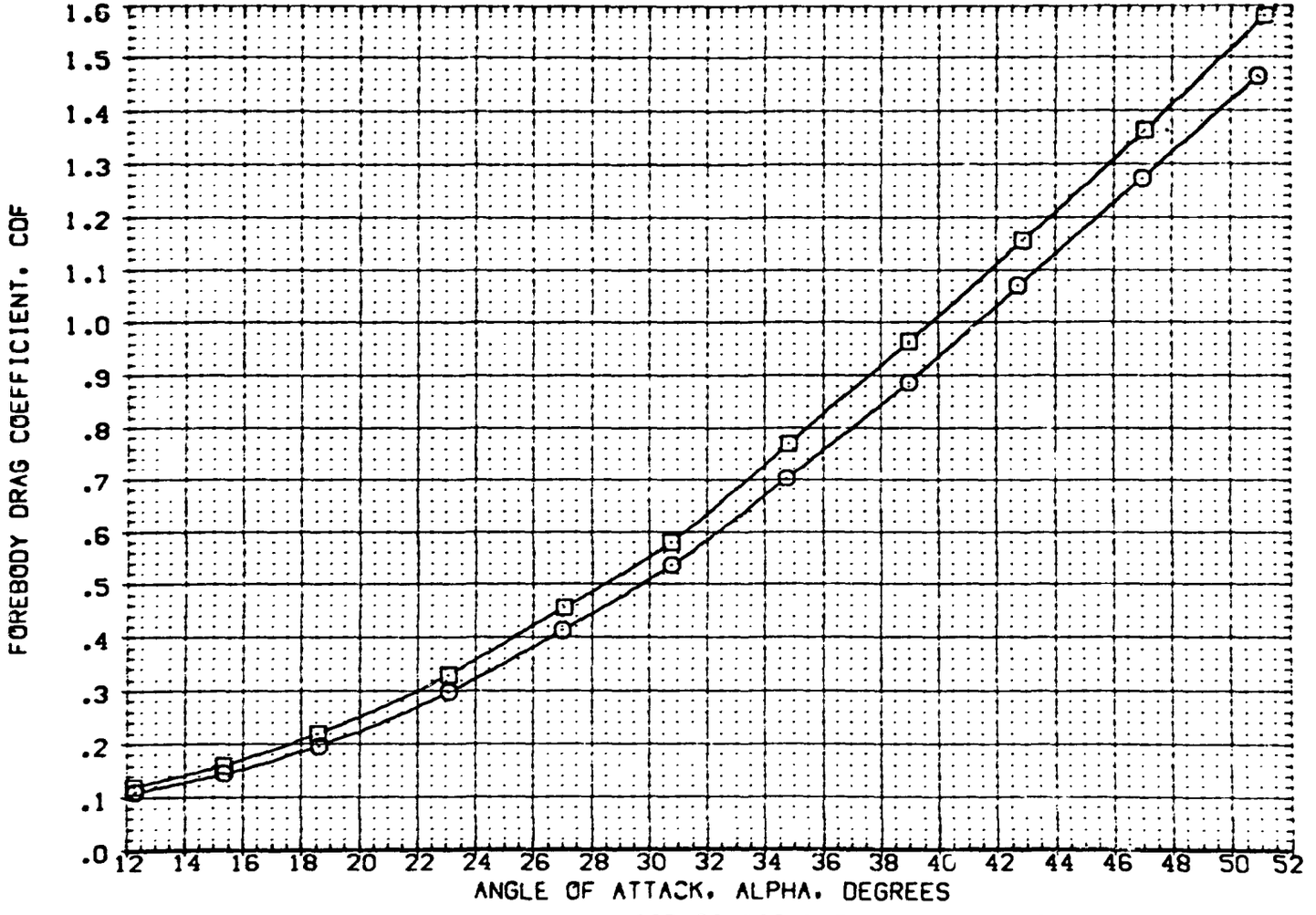


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(C86011)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(C86015)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

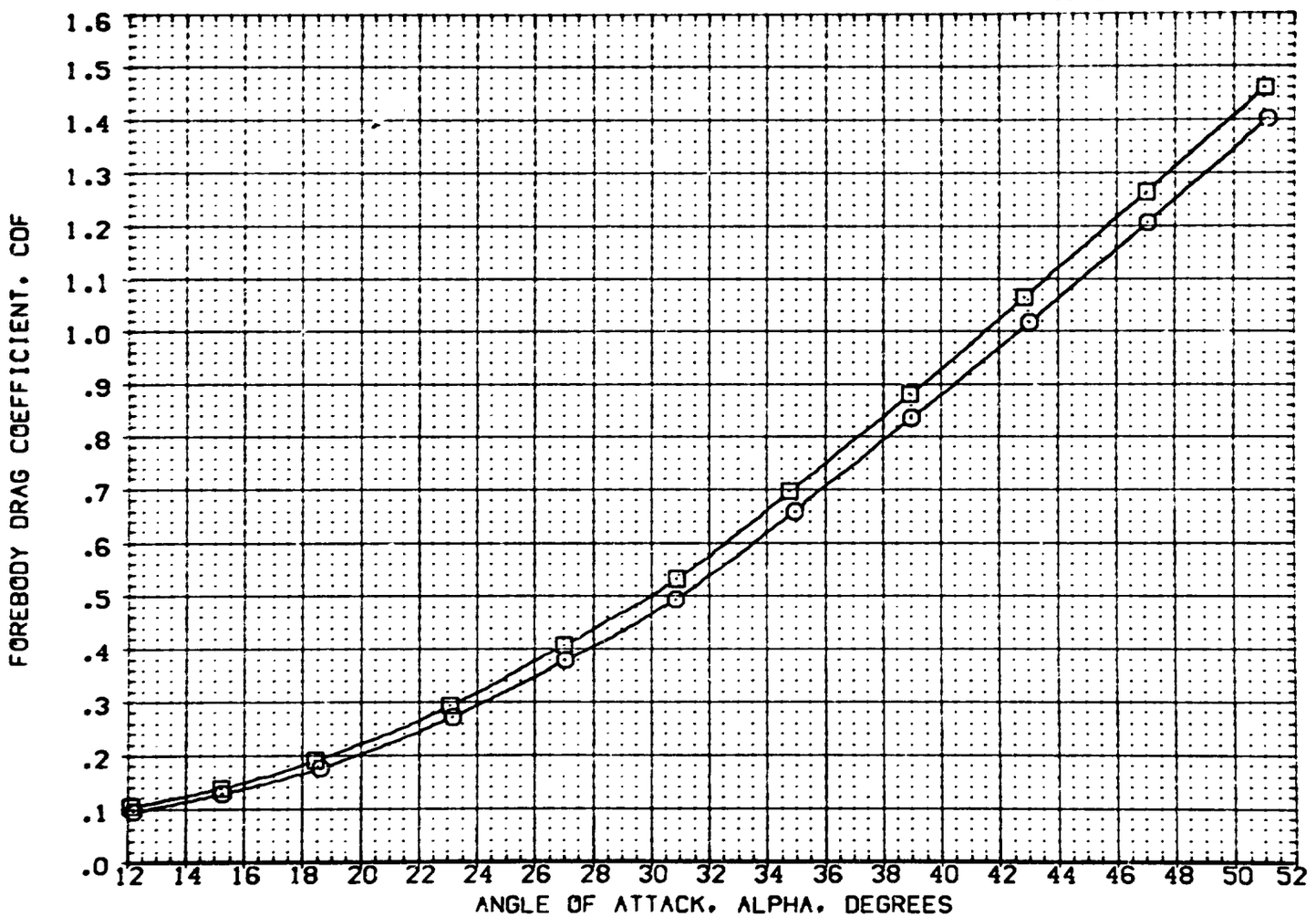


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(C86011)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000
(C96015)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

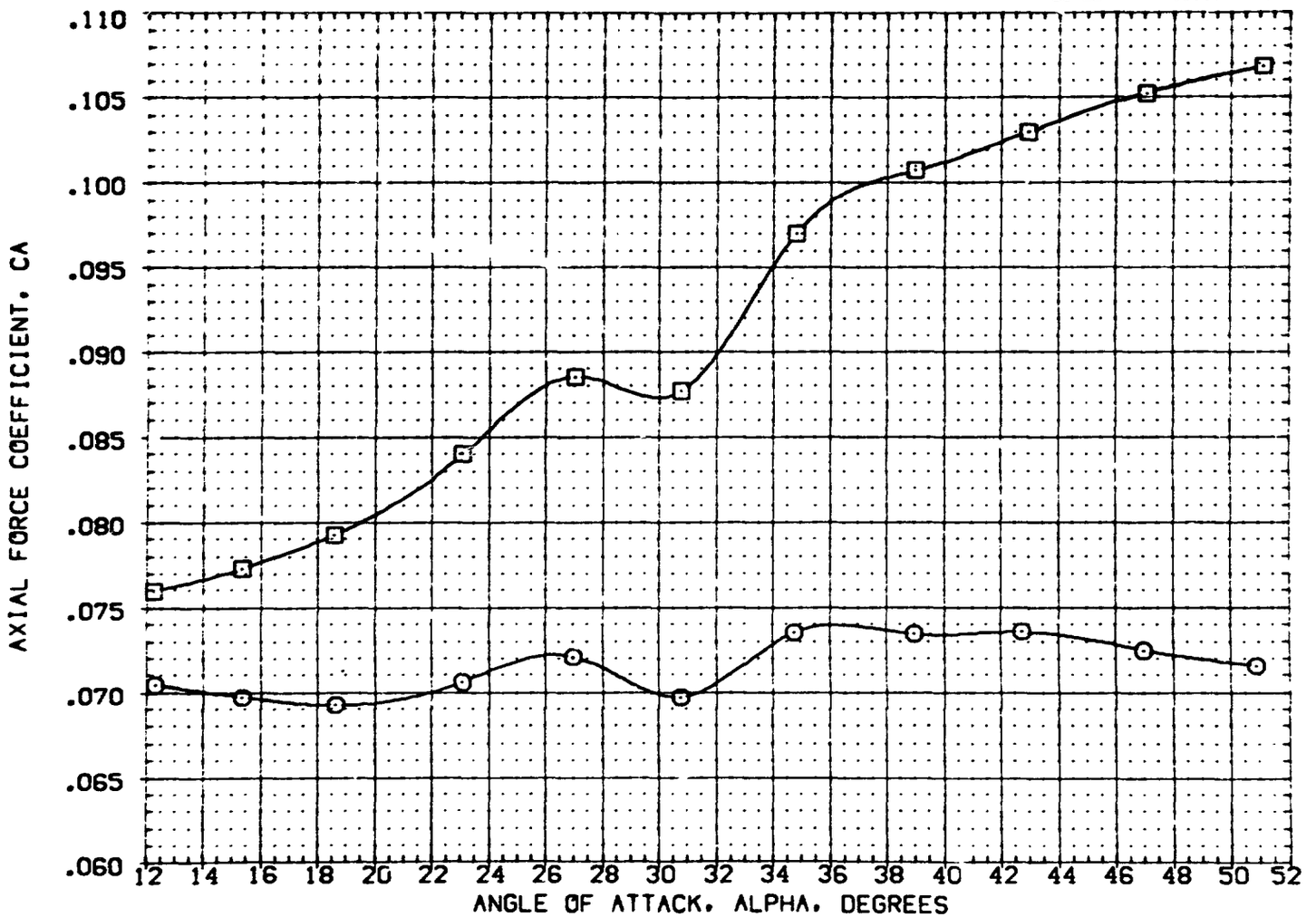


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6011)	○	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(CB6015)	□	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

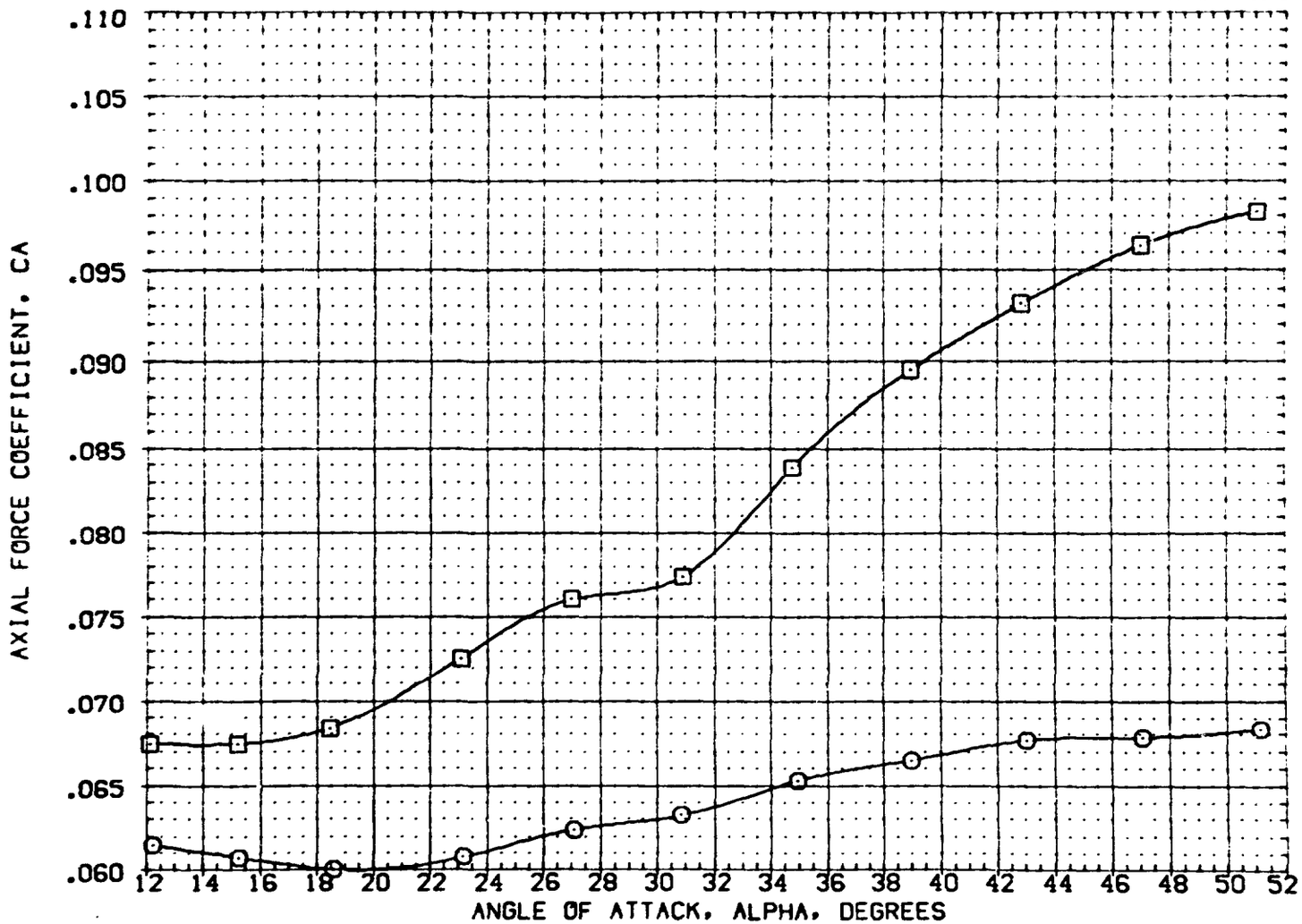


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(C86011)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(C86015)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

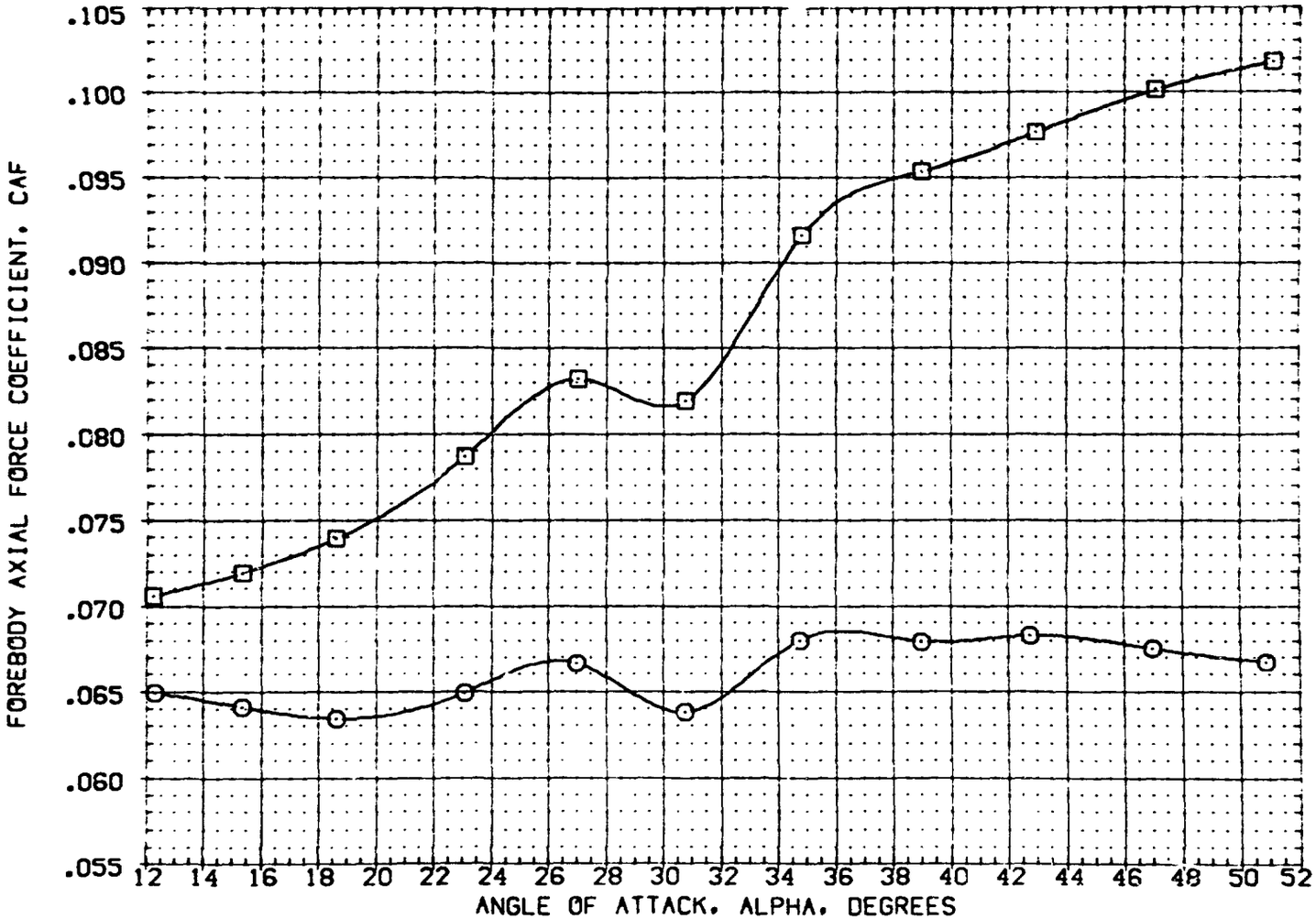


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCA

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(C86C11)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(C86C15)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

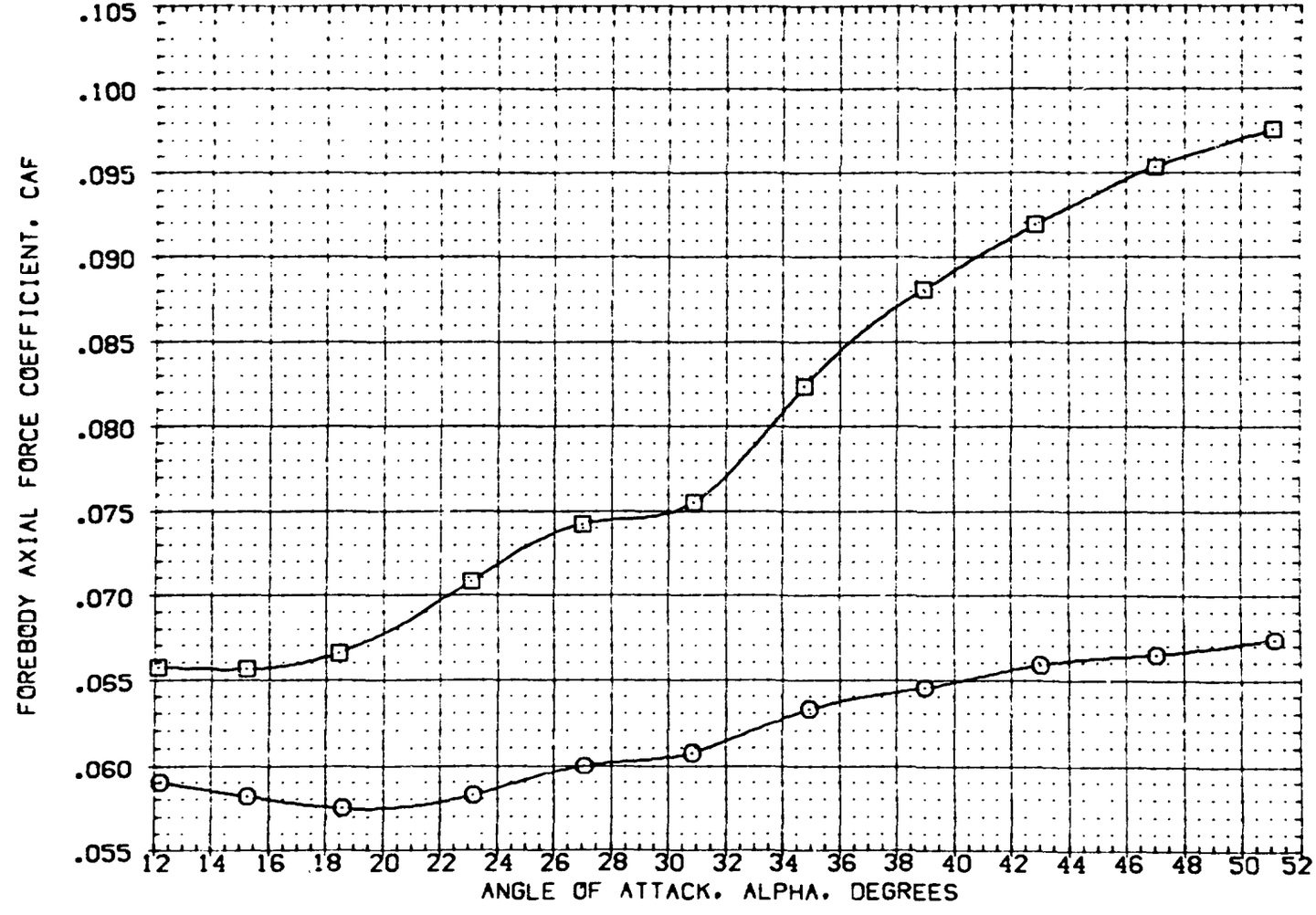


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BCFLAP	SPOBRK	RUDDER
(CB601:1)	○	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N6 R5 V7 W107	.000	13.750	55.000	.000
(CB601S)	□	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	935.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

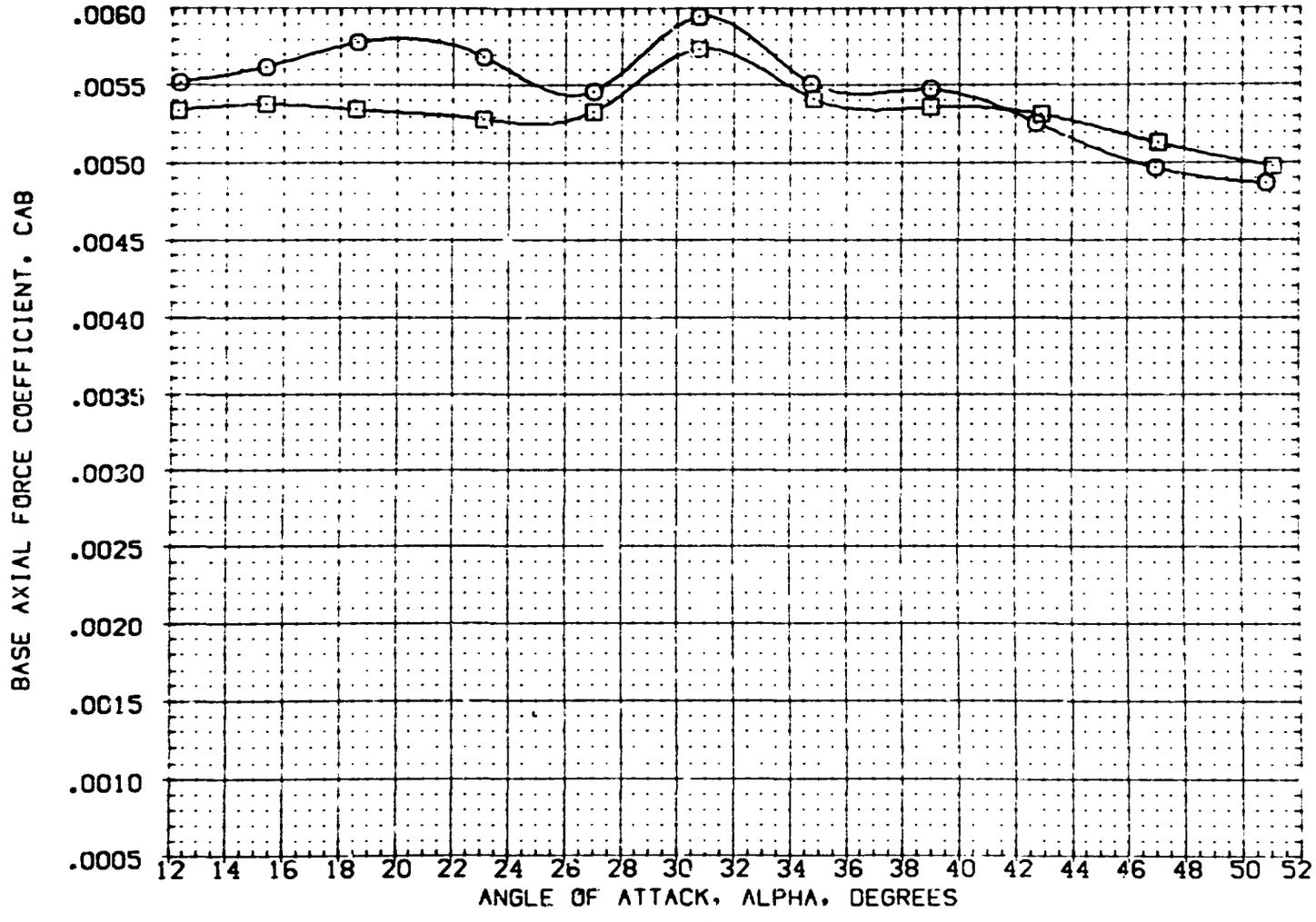


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(3860:1)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(3860:5)	▭	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
[C9601]	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	1.750	55.000	.000
[C9601S]	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

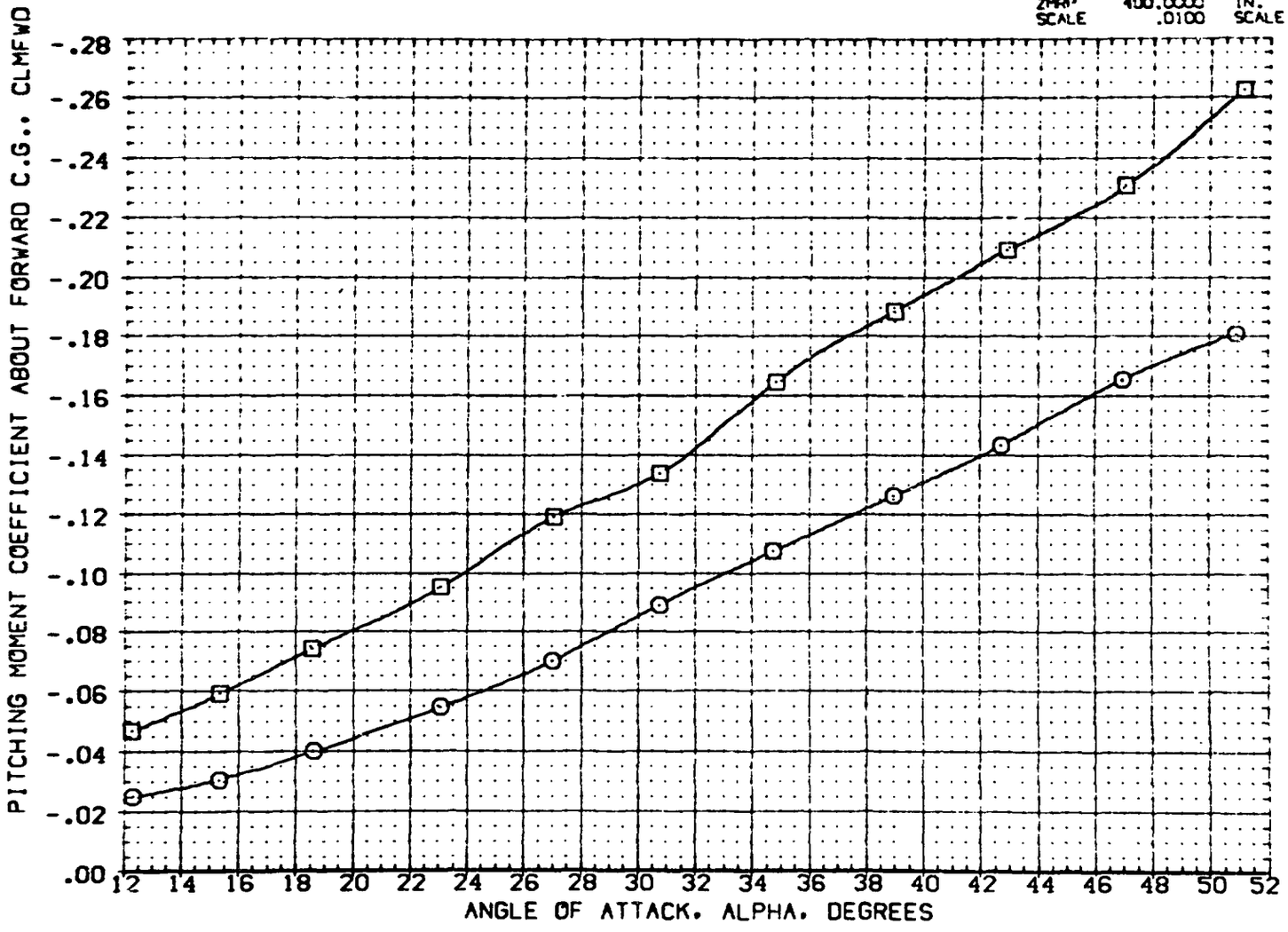


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
[C86011]	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
[C86015]	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

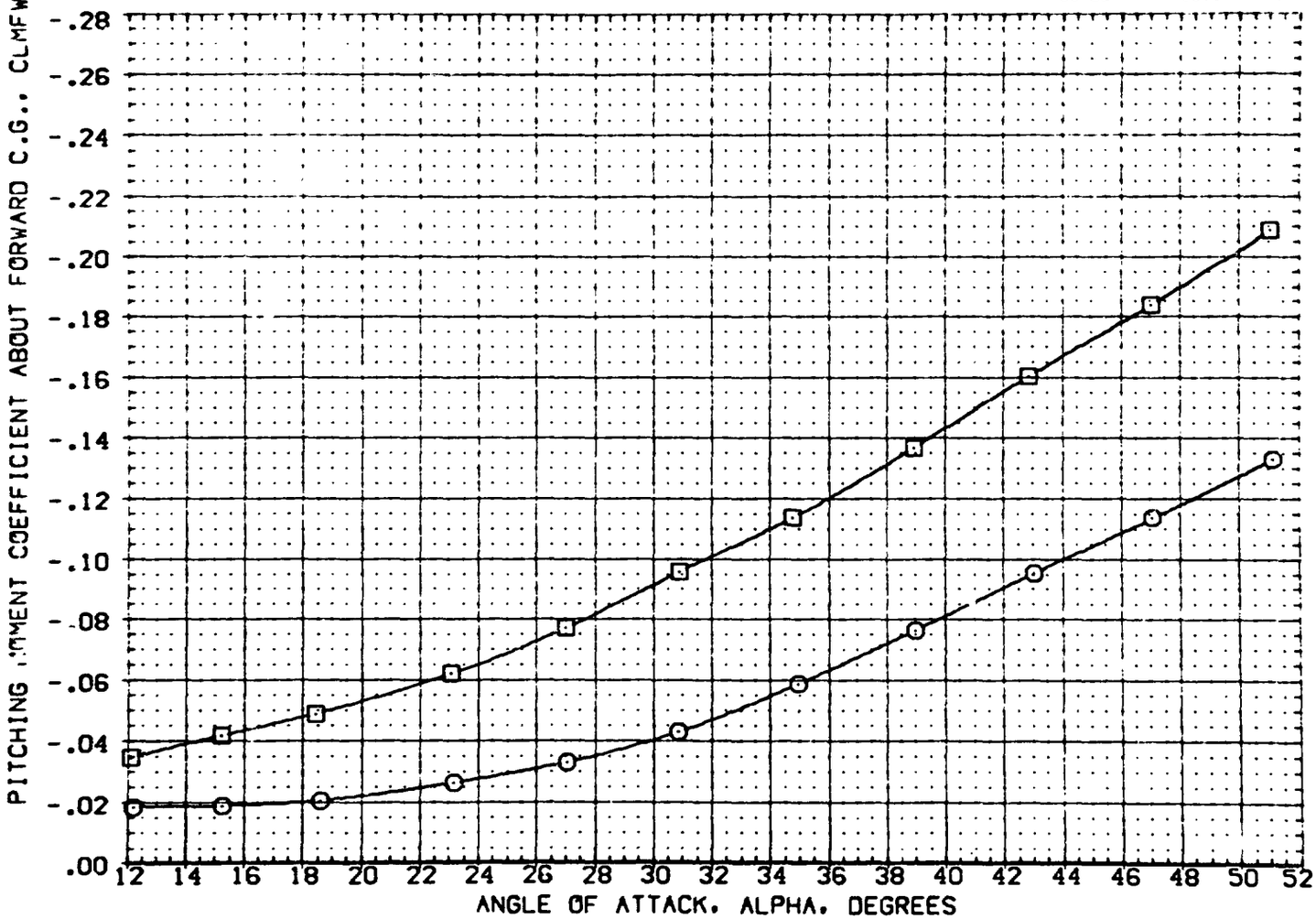


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(G)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6011)	⊡	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(CB6015)	⊟	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

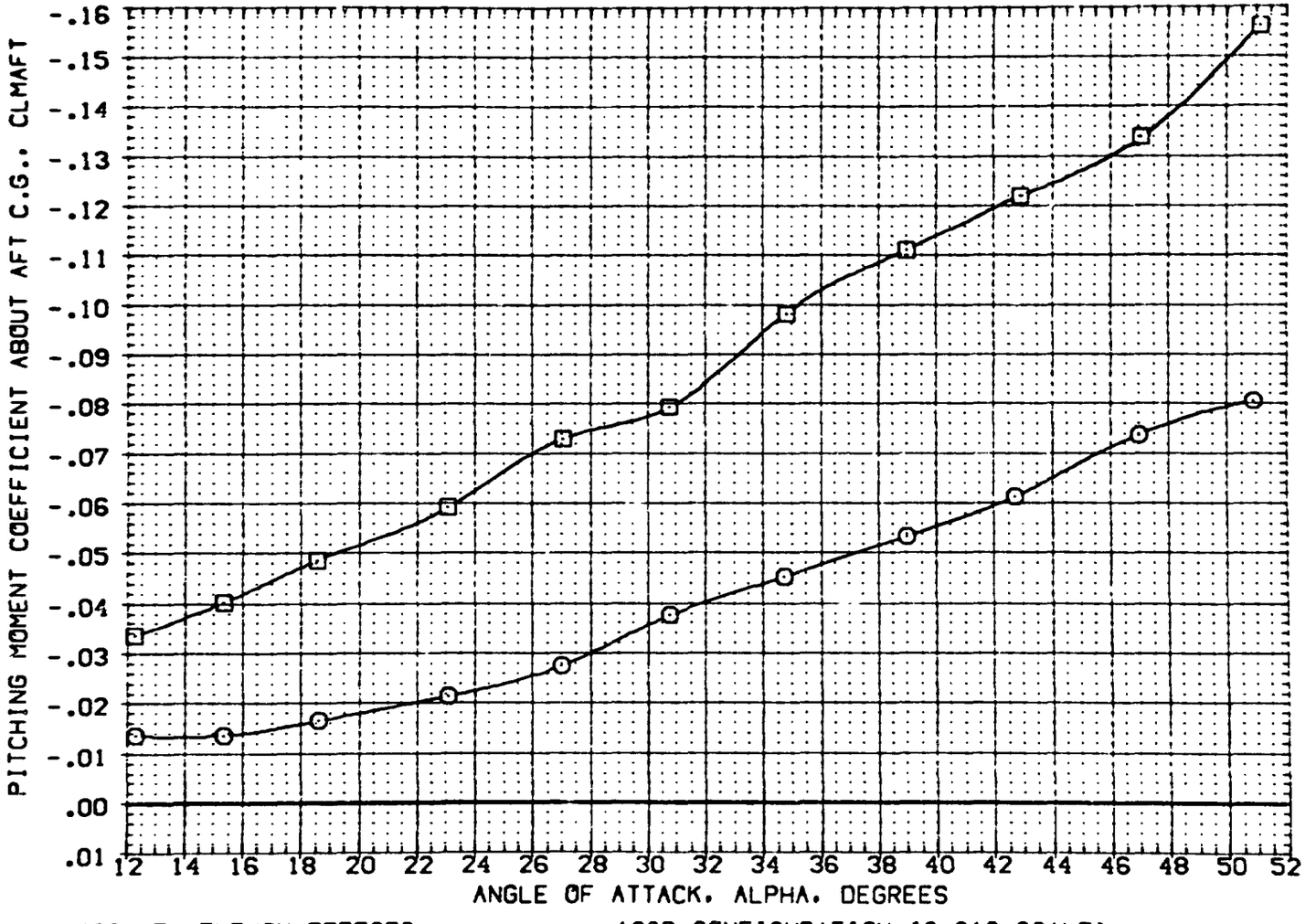


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6011)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(CB6015)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

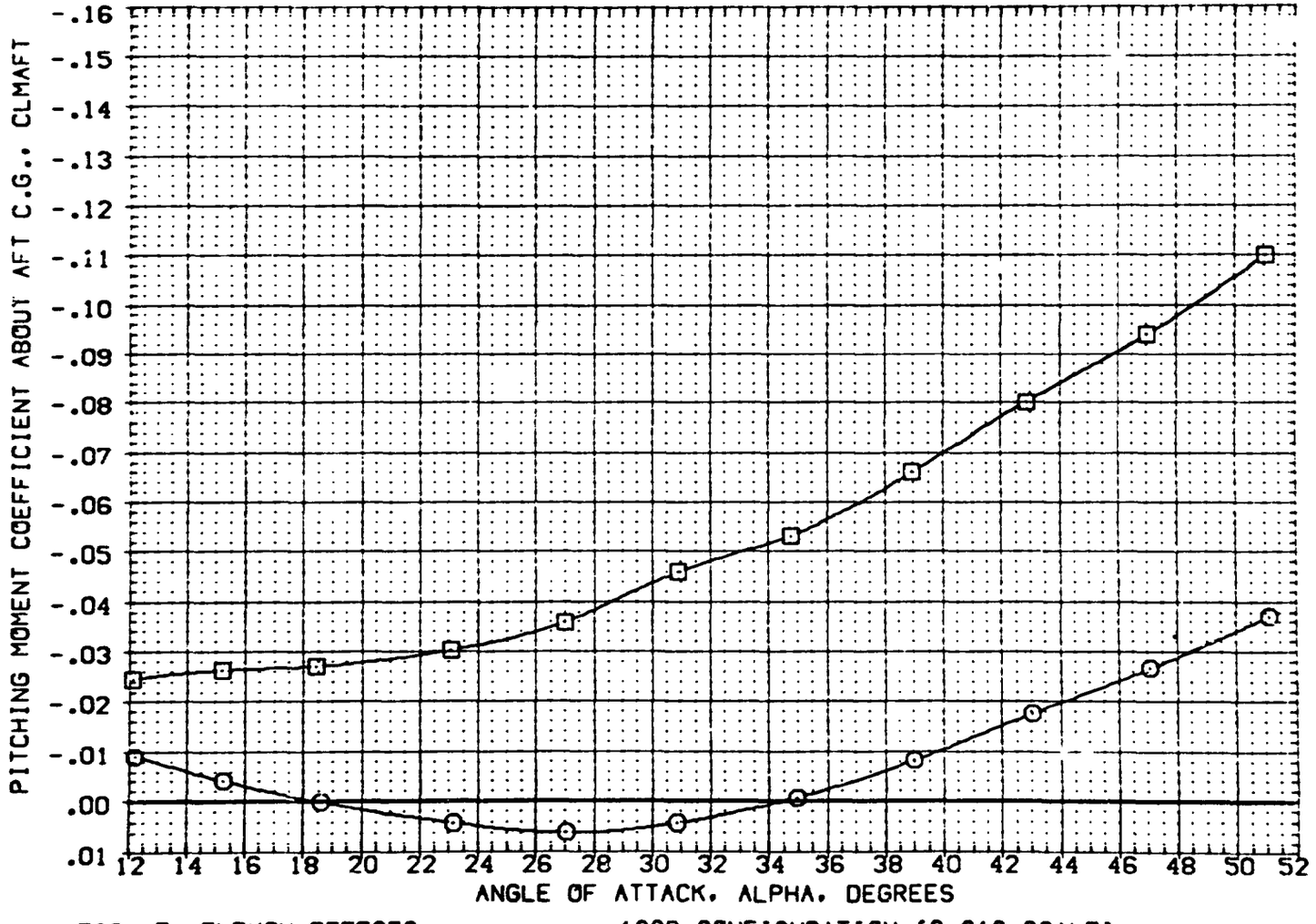


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6011)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(CB6015)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

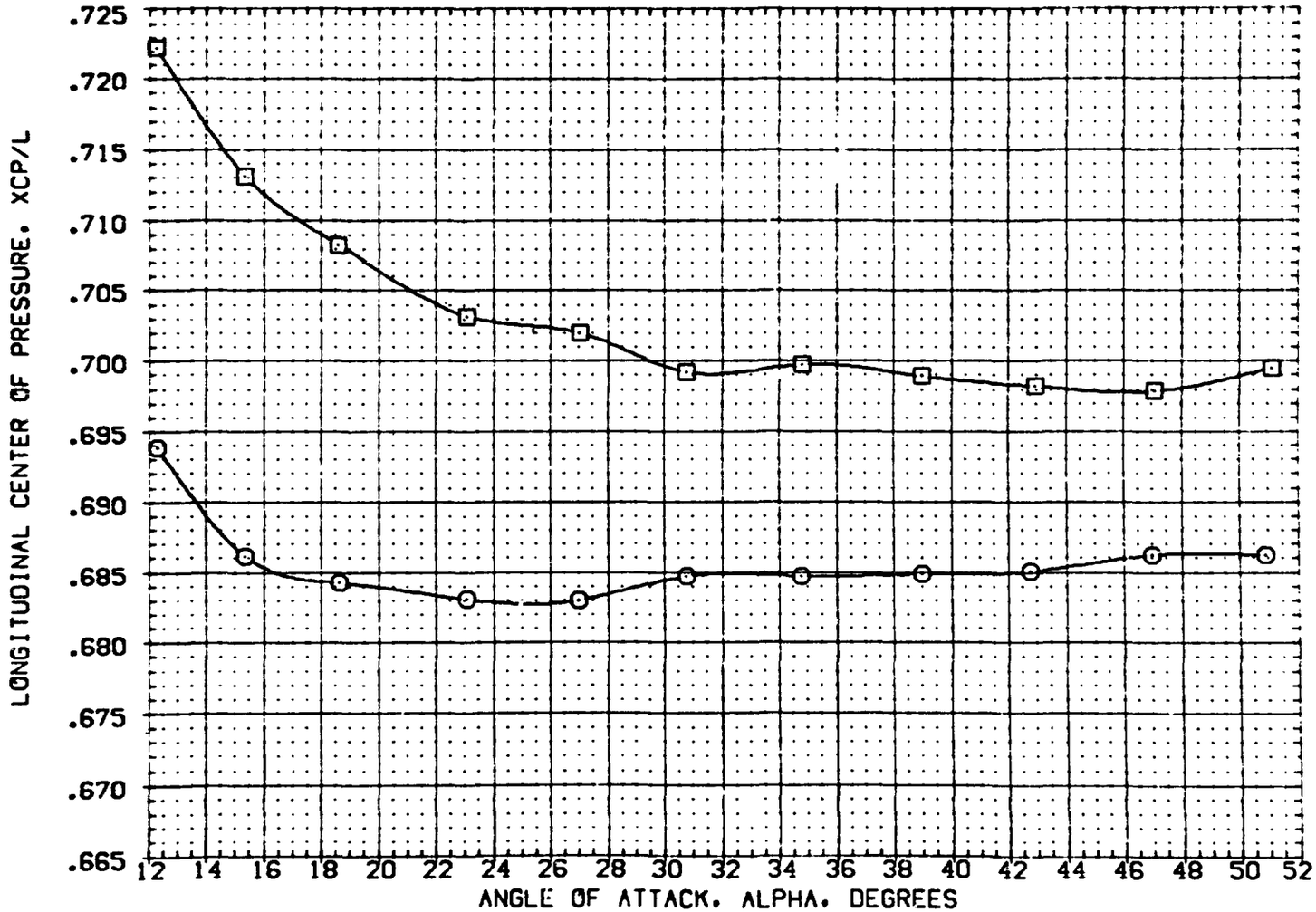


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(C860!1)	○	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(C860!5)	□	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.2000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

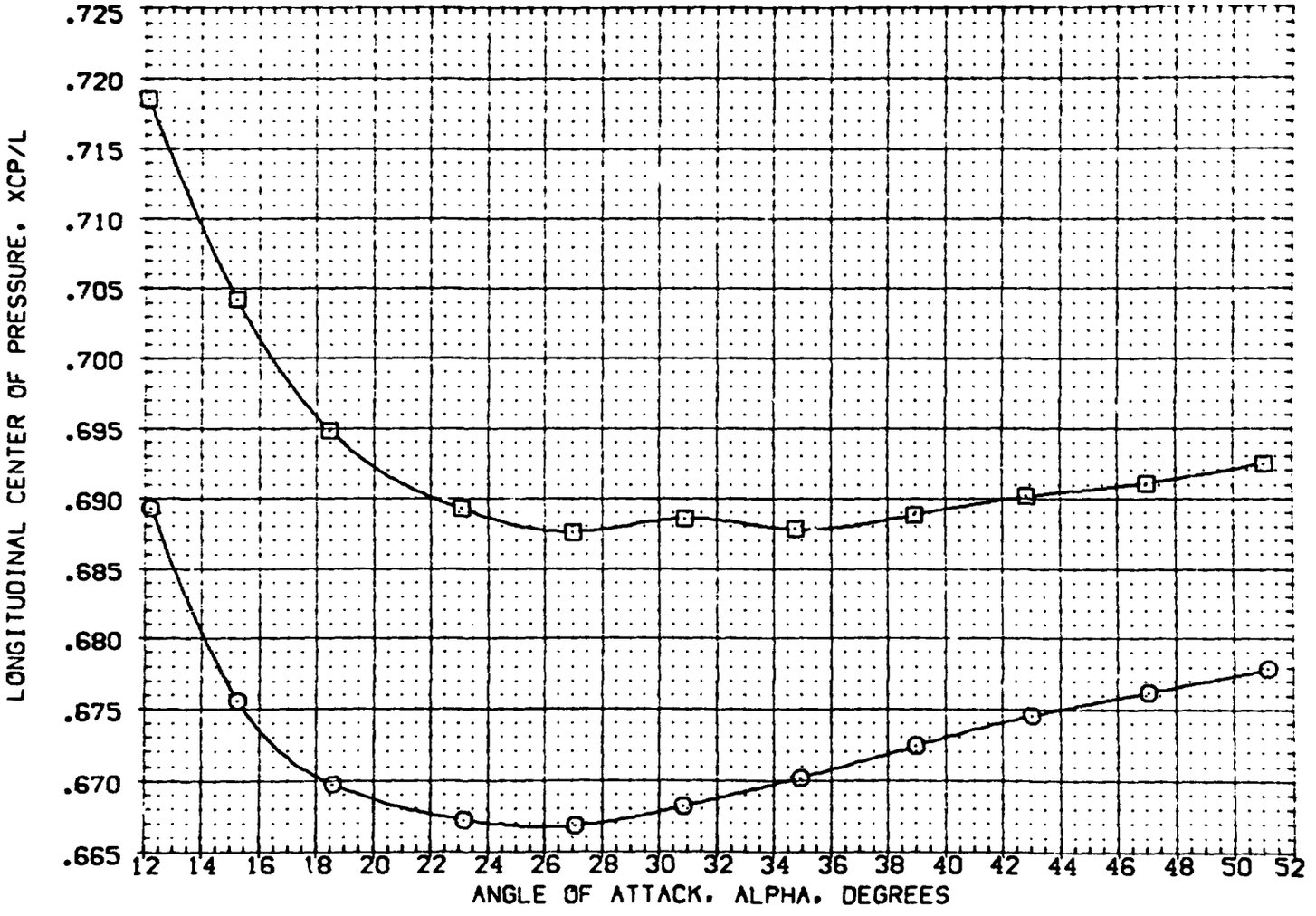


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(B8601I)	⊡	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(B8601S)	⊟	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(8860:1)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000
(8860:5)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

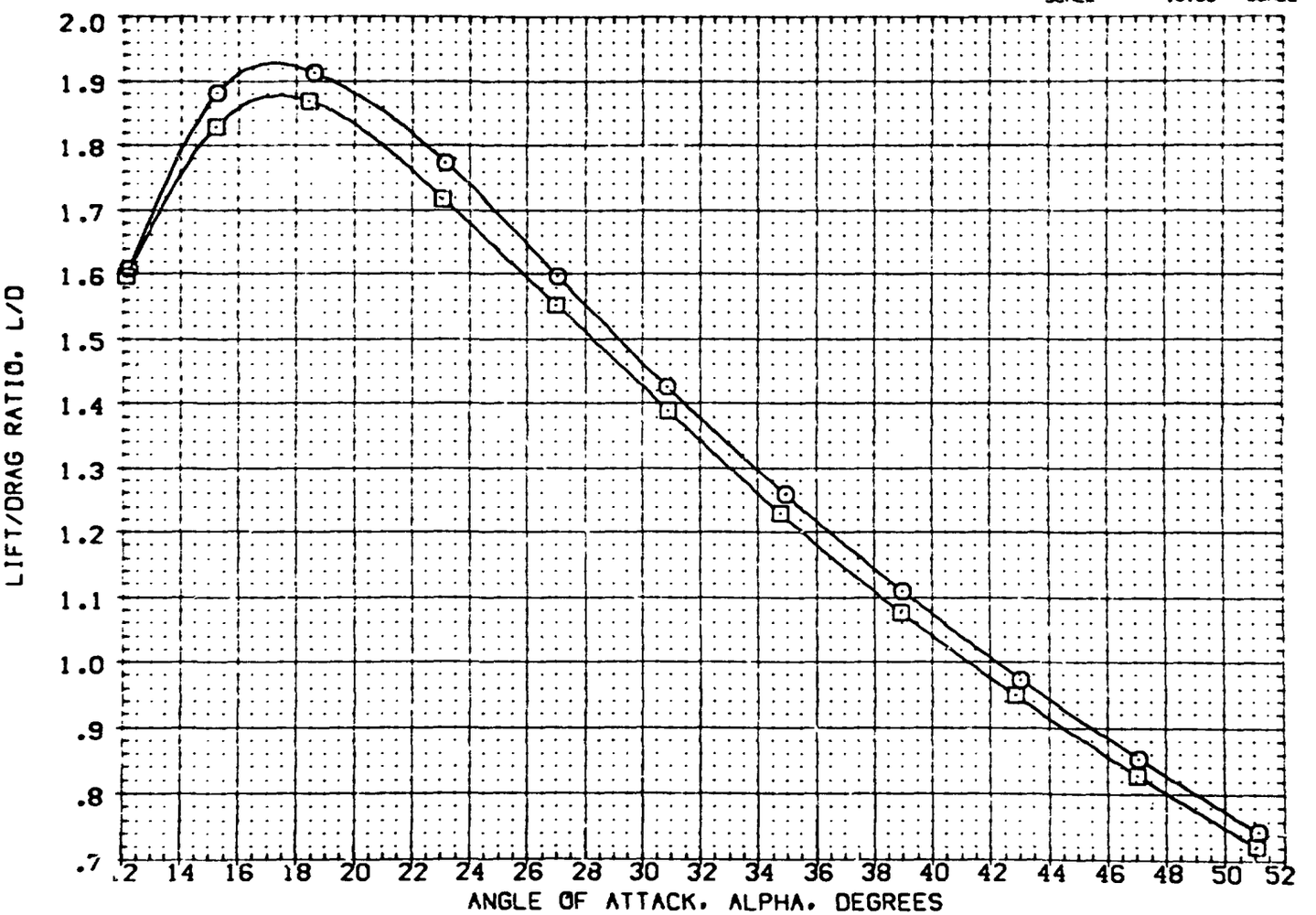


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
[CB6011]	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000
[CB6015]	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

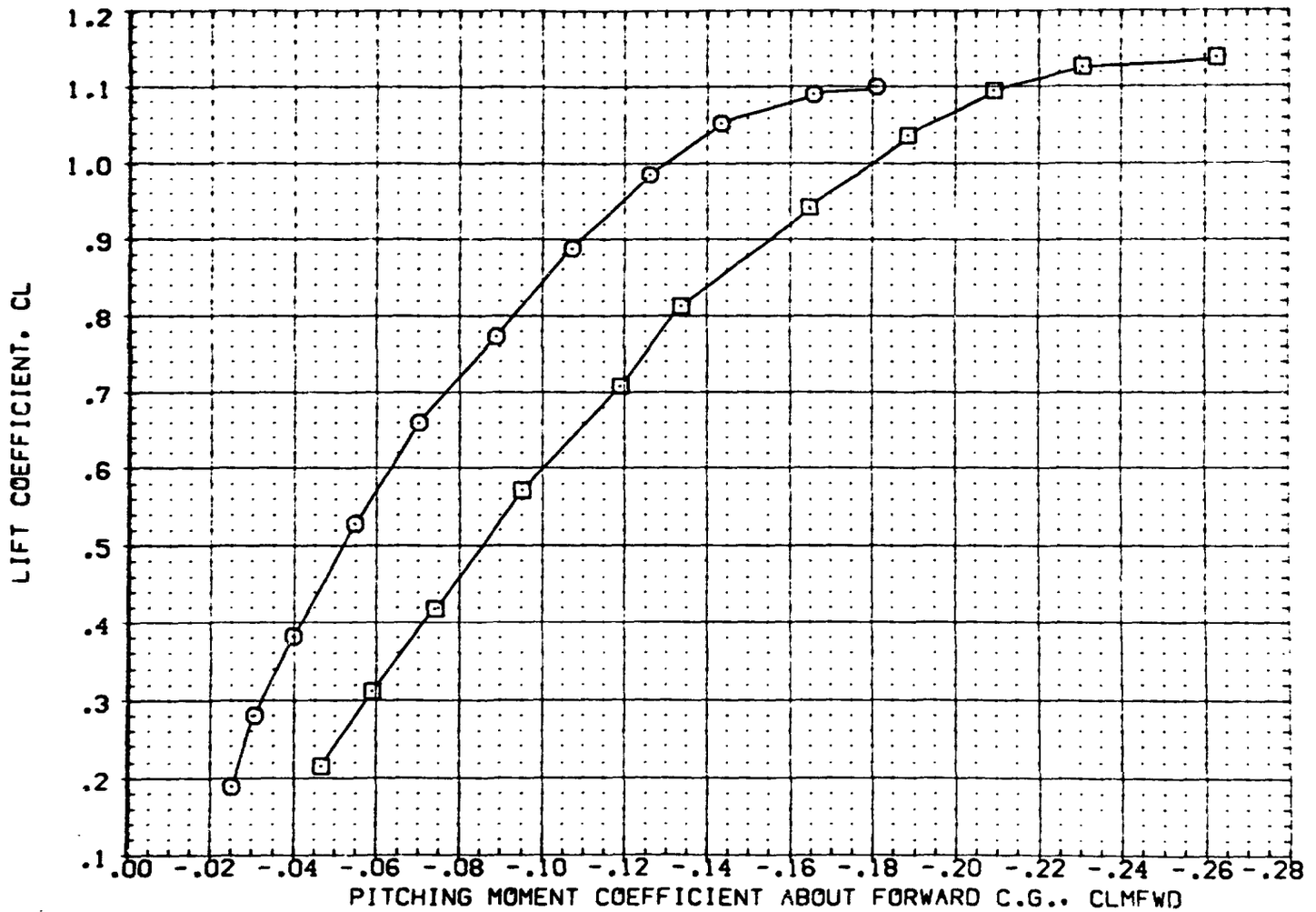


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(CB601:)	☐	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(CB601:5)	☐	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

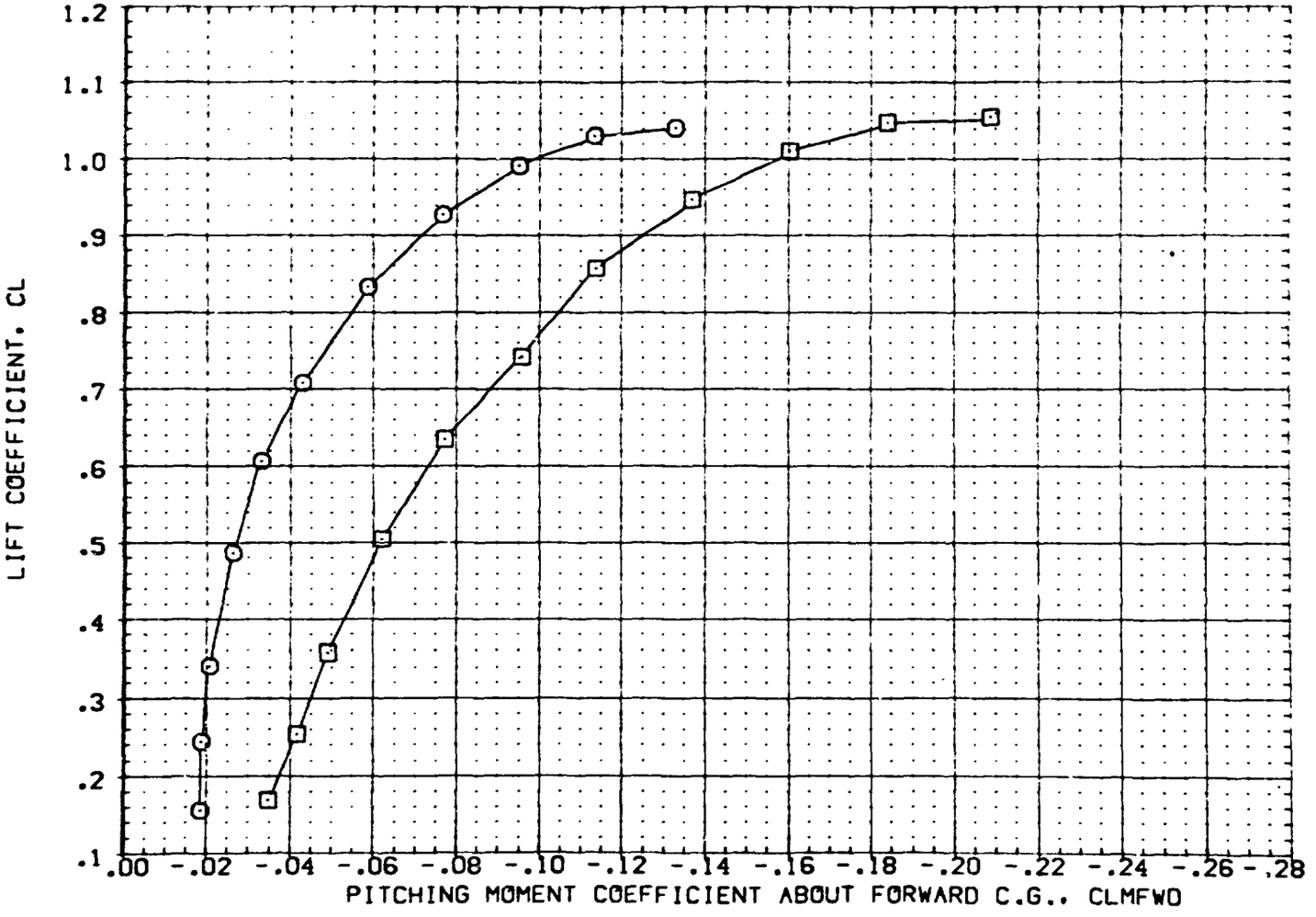


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(C86011)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(C86015)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

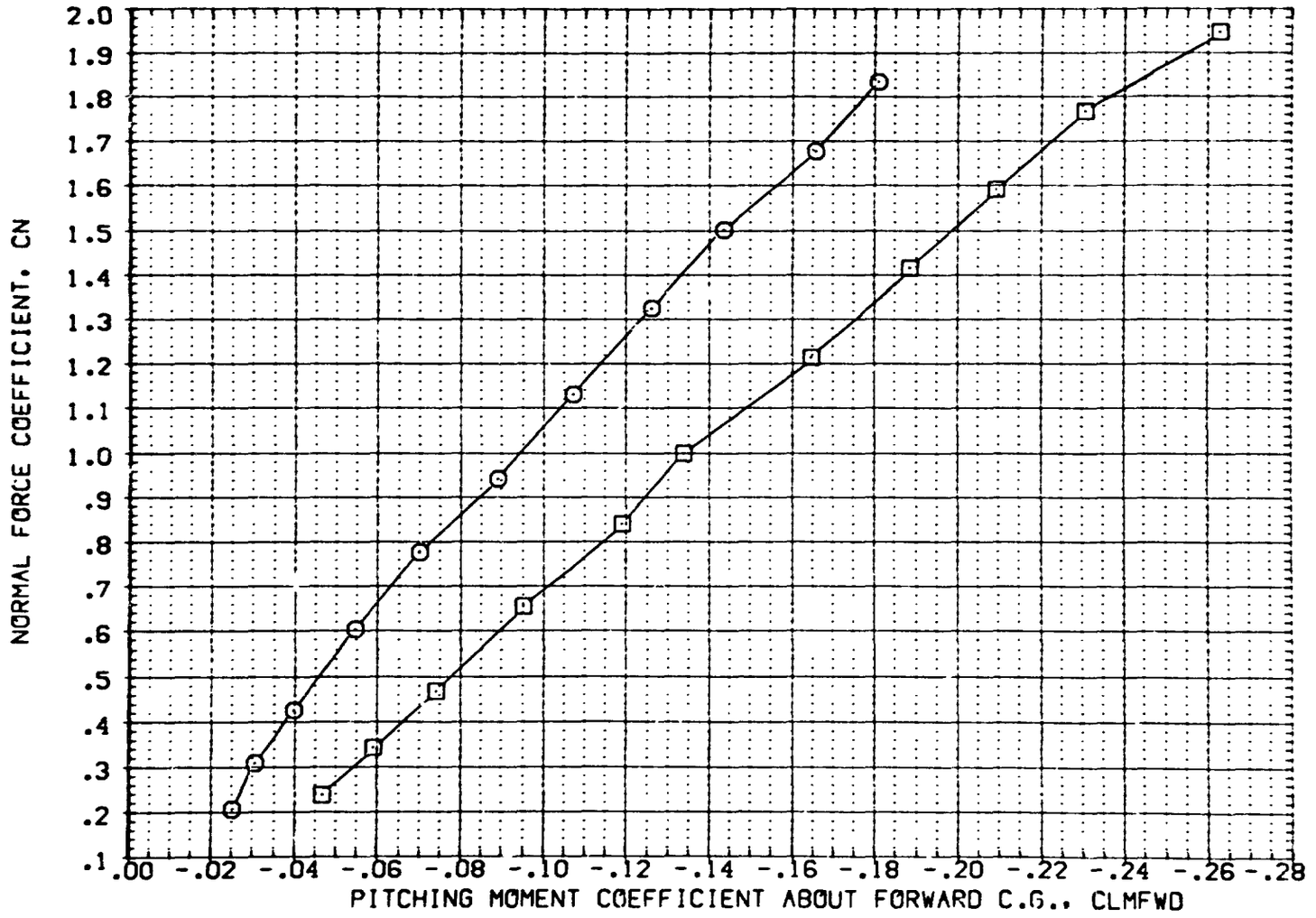


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6011)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(CB6015)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

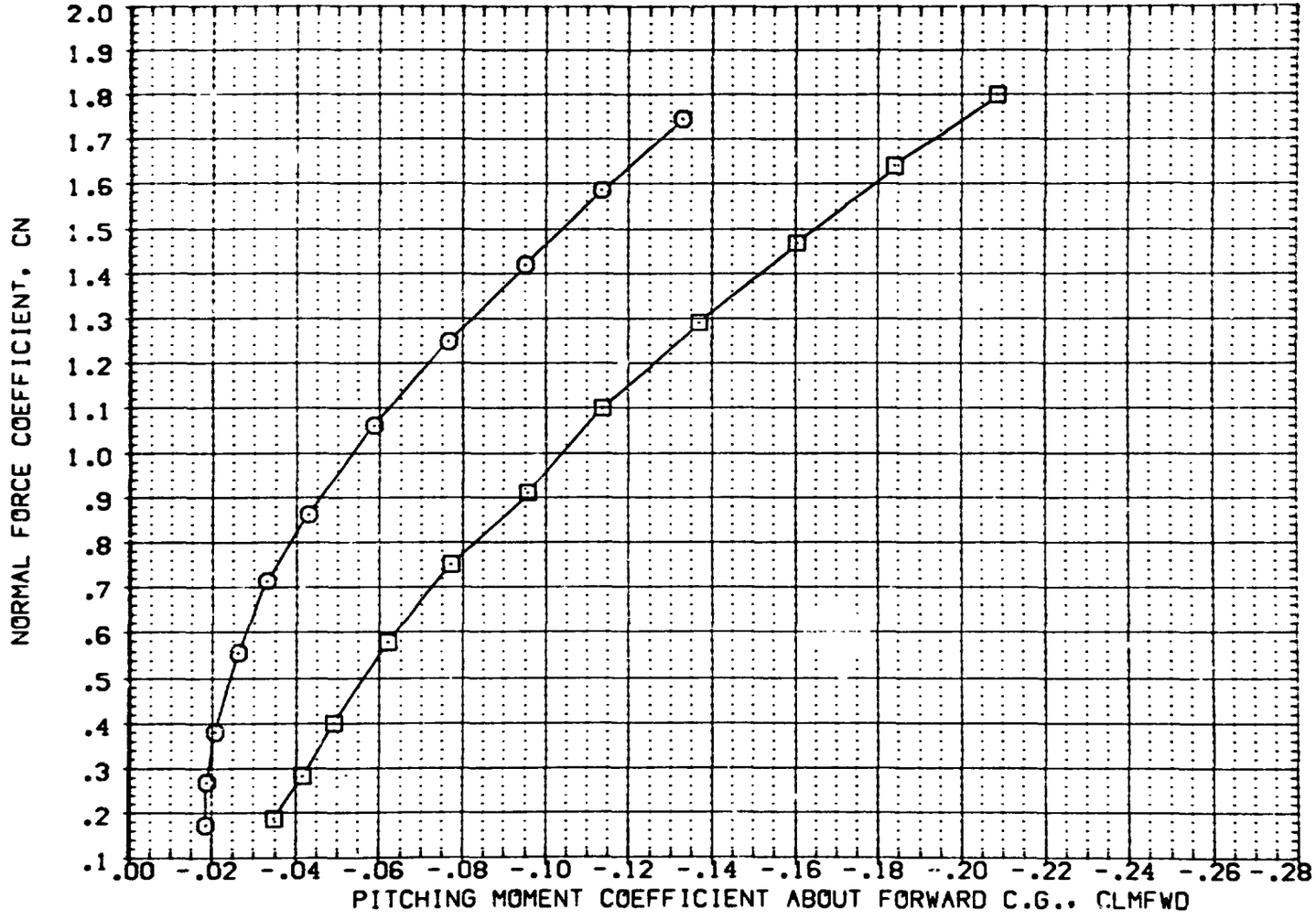


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6011)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(CB601S)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

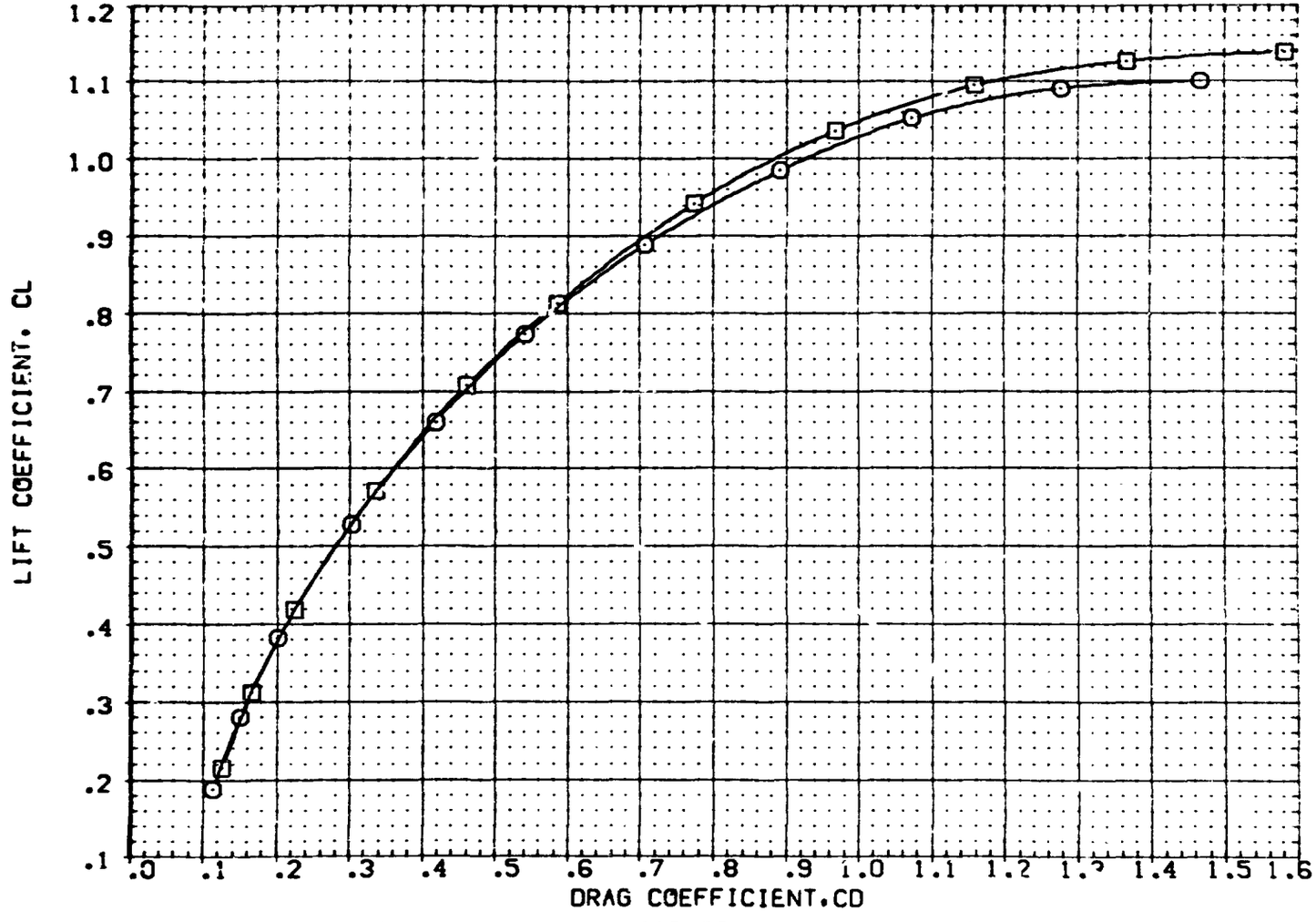


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6011)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000
(CB6015)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

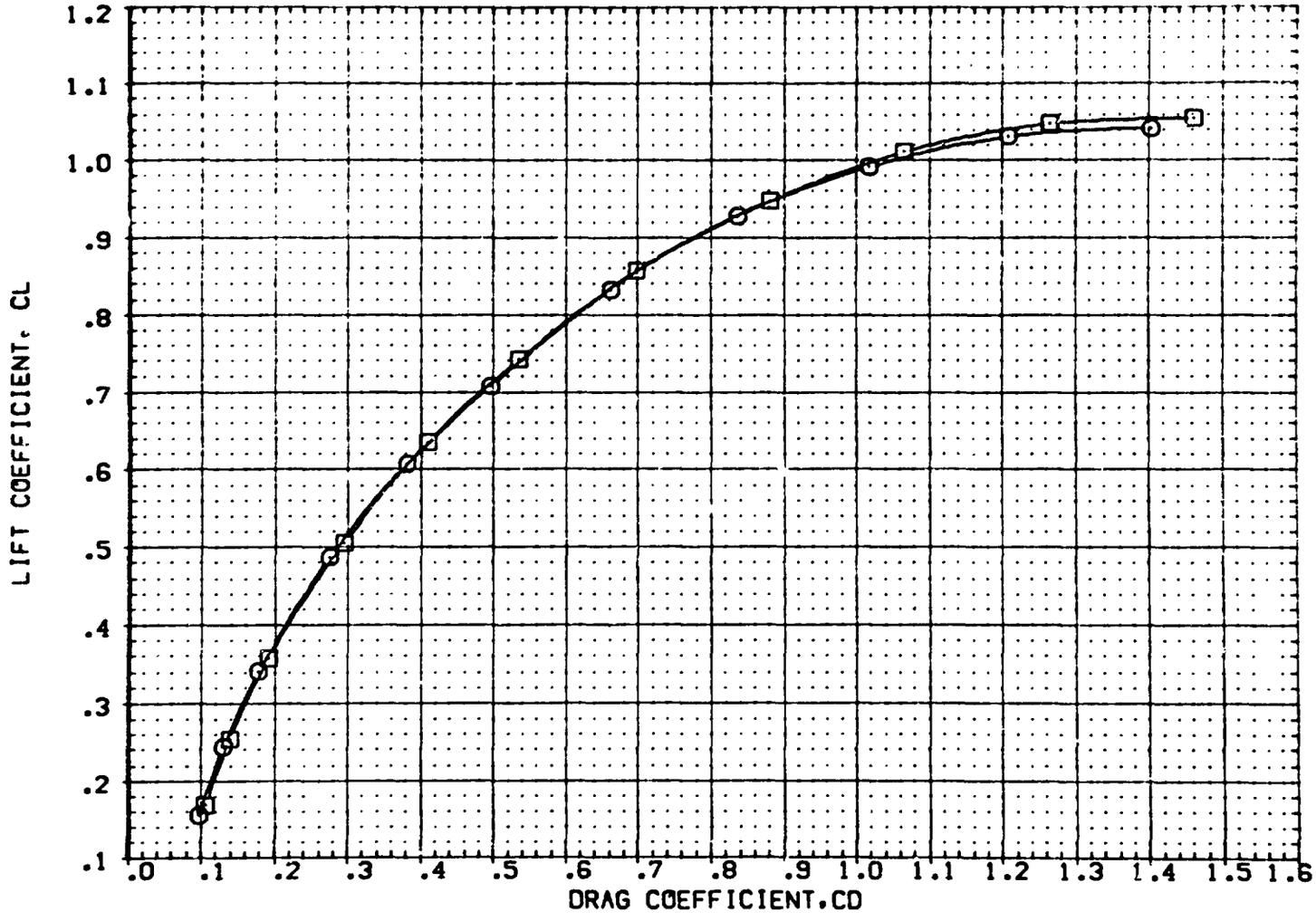


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(TB6018)	□	AMES3.S-168 0A23 B:9 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6020)	○	AMES3.S-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(TB6019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(TB6021)	△	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(TB6013)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

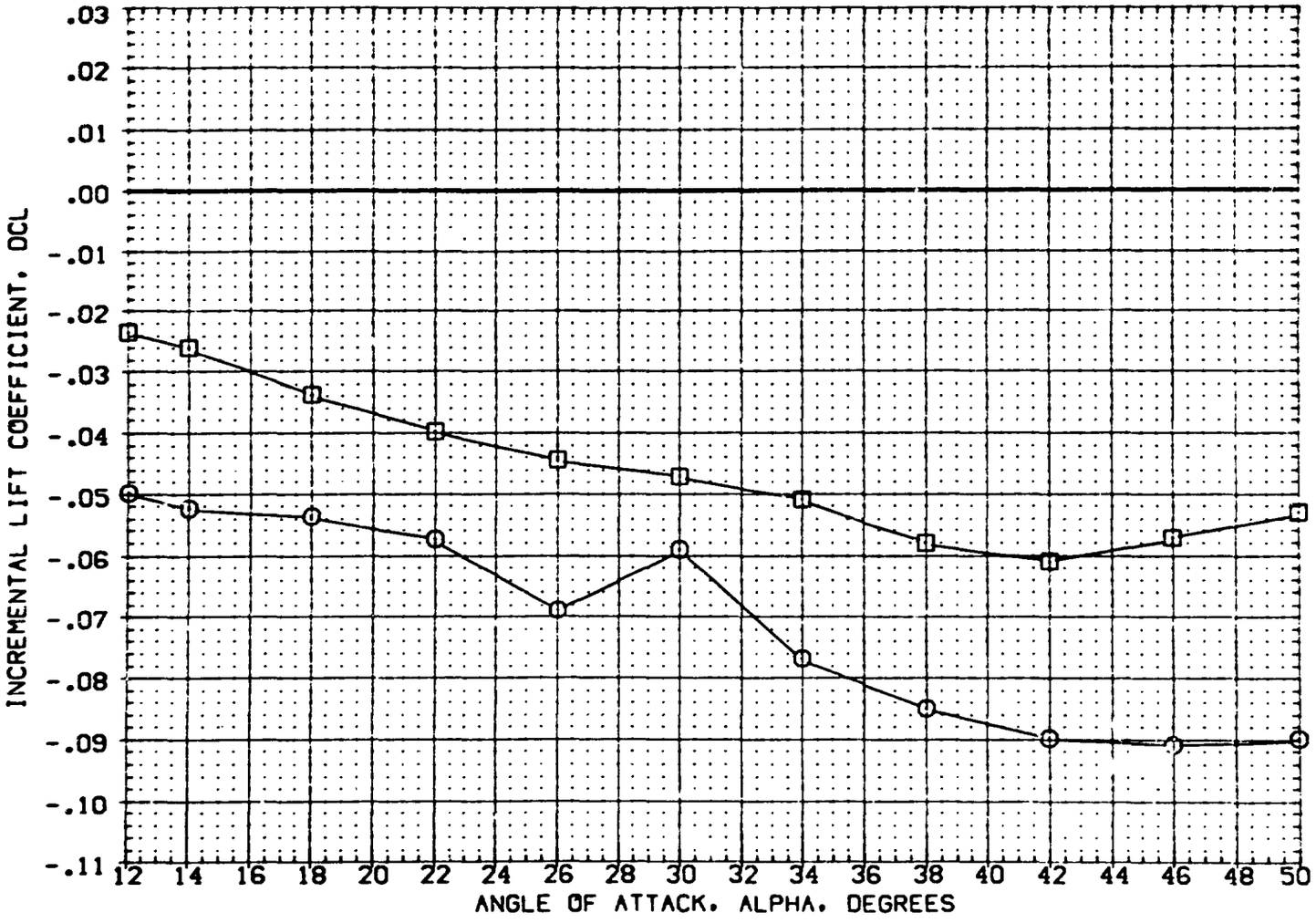


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(T86018)	□	AMES3.5-168 CA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(T86020)	▽	AMES3.5-168 CA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(T86019)	◇	AMES3.5-168 CA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000
(T86021)	△	AMES3.5-168 CA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000
(T86013)	○	AMES3.5-168 CA23 B19 C7 E23 FS M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

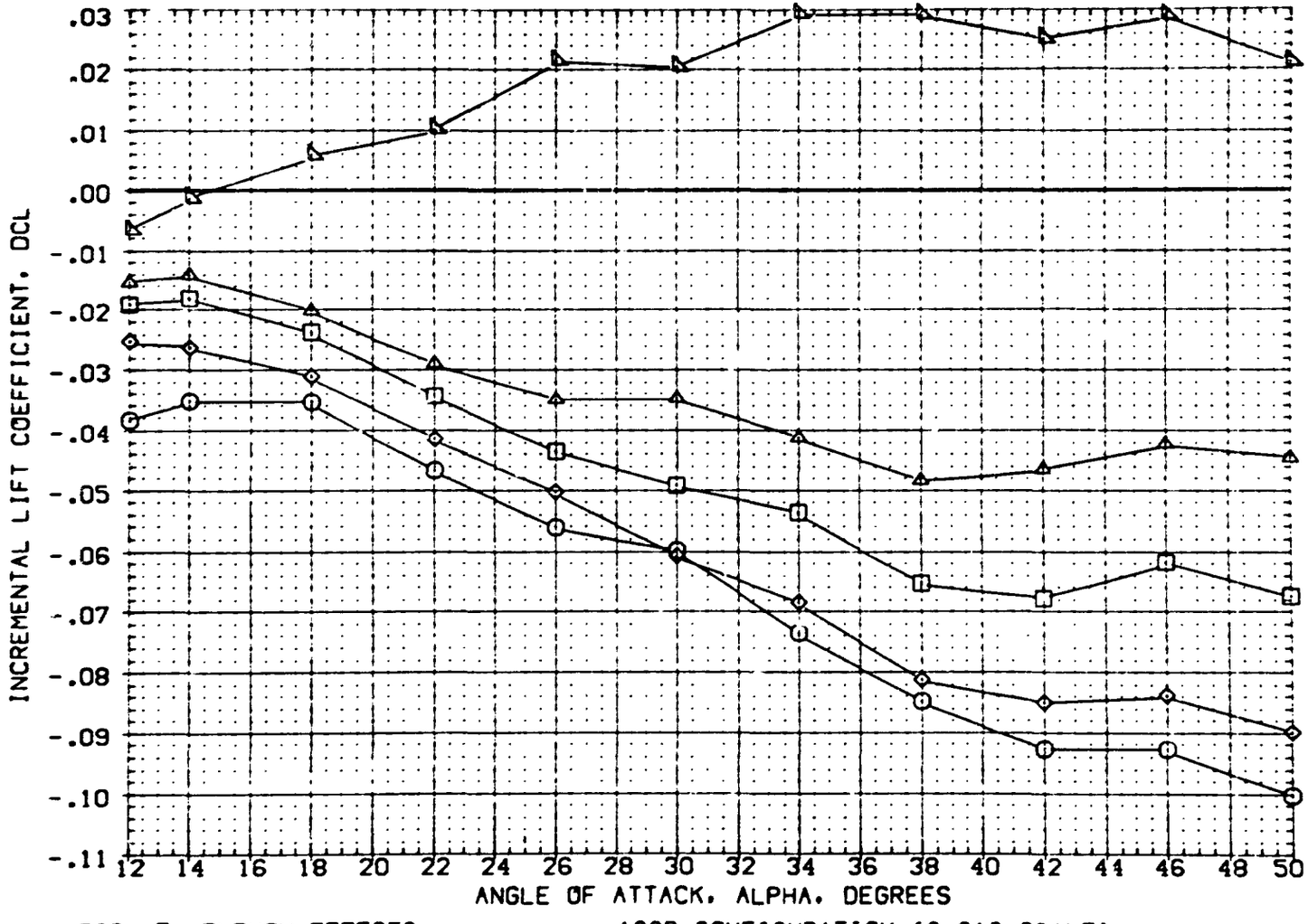


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(T86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(T86020)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(T86019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(T86021)	△	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(T86013)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1073.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

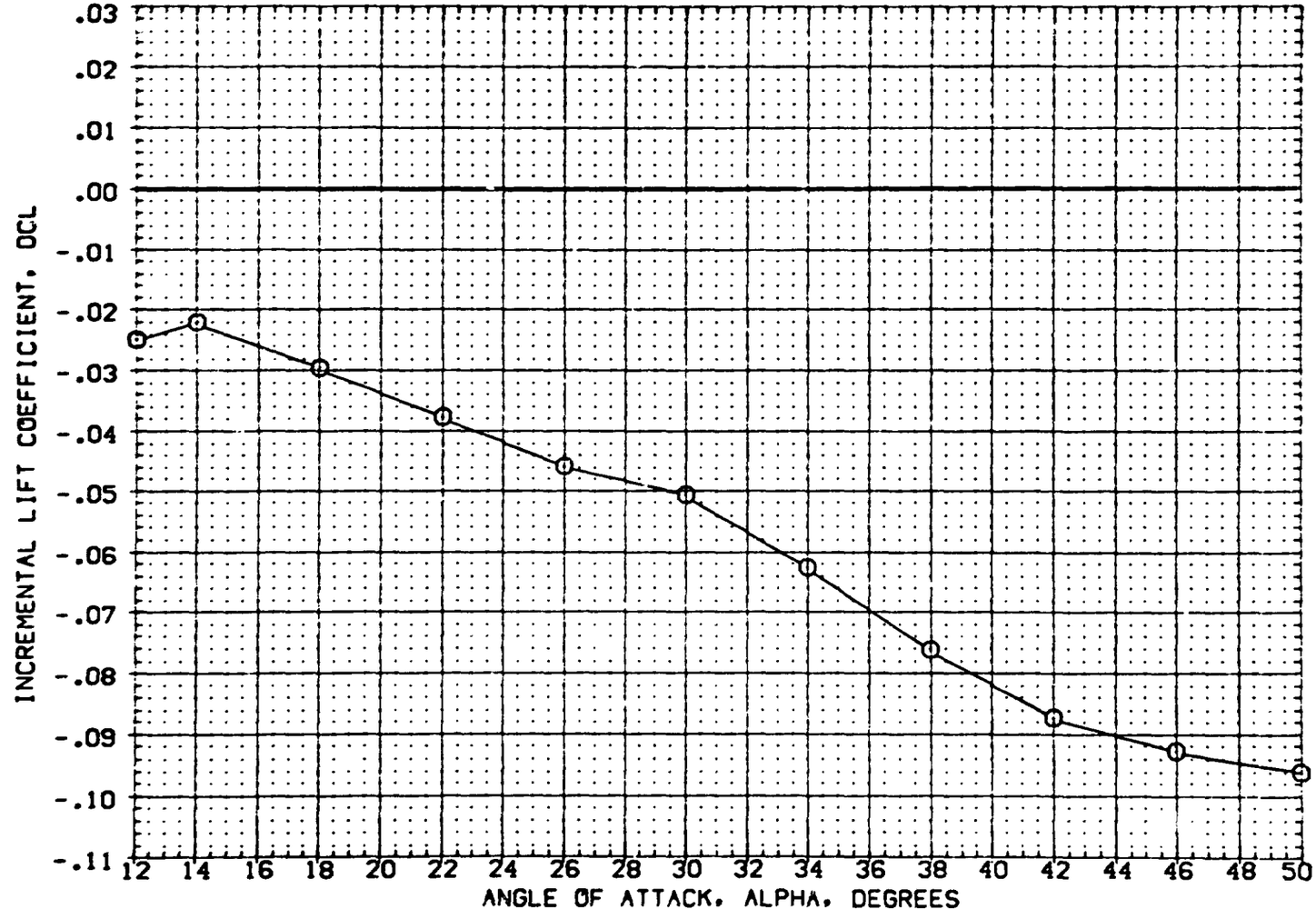


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(TB6018)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6020)	⋈	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(TB6019)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(TB6021)	△	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(TB6013)		DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

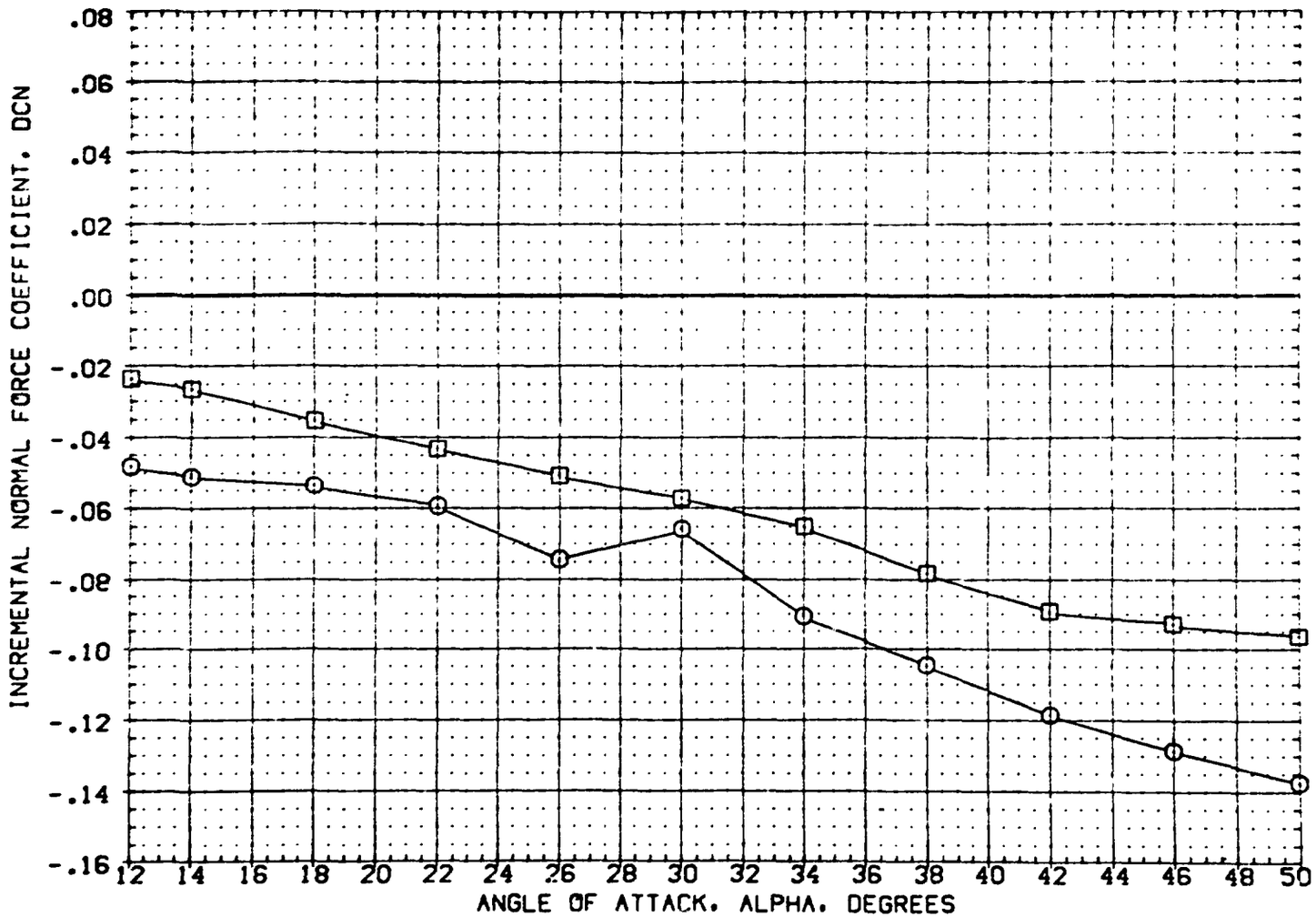


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(T86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(T86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(T86019)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000
(T86021)	⊠	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000
(T86013)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

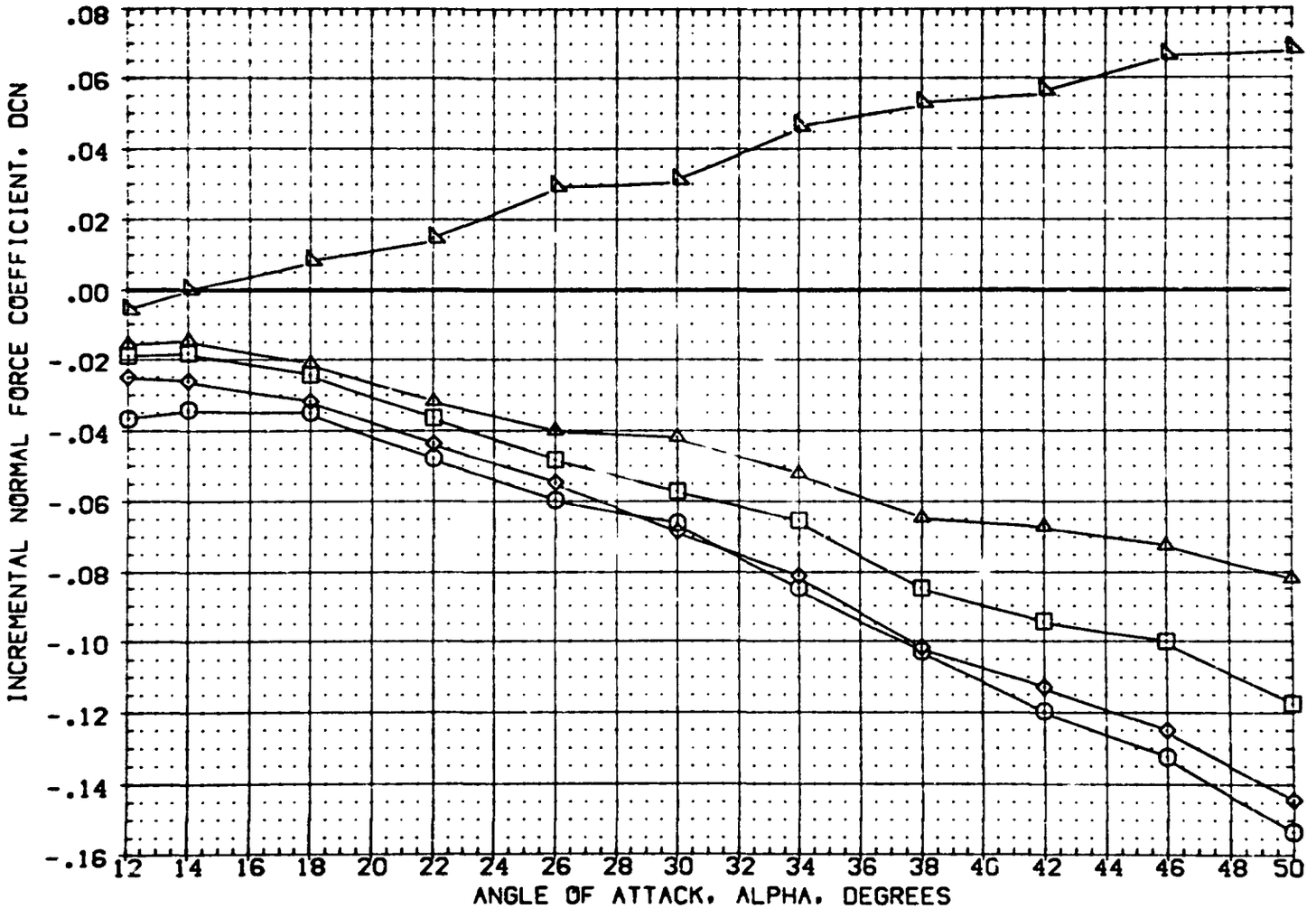


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER
(TB6018)	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6020)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(TB6021)	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(TB6013)	△	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

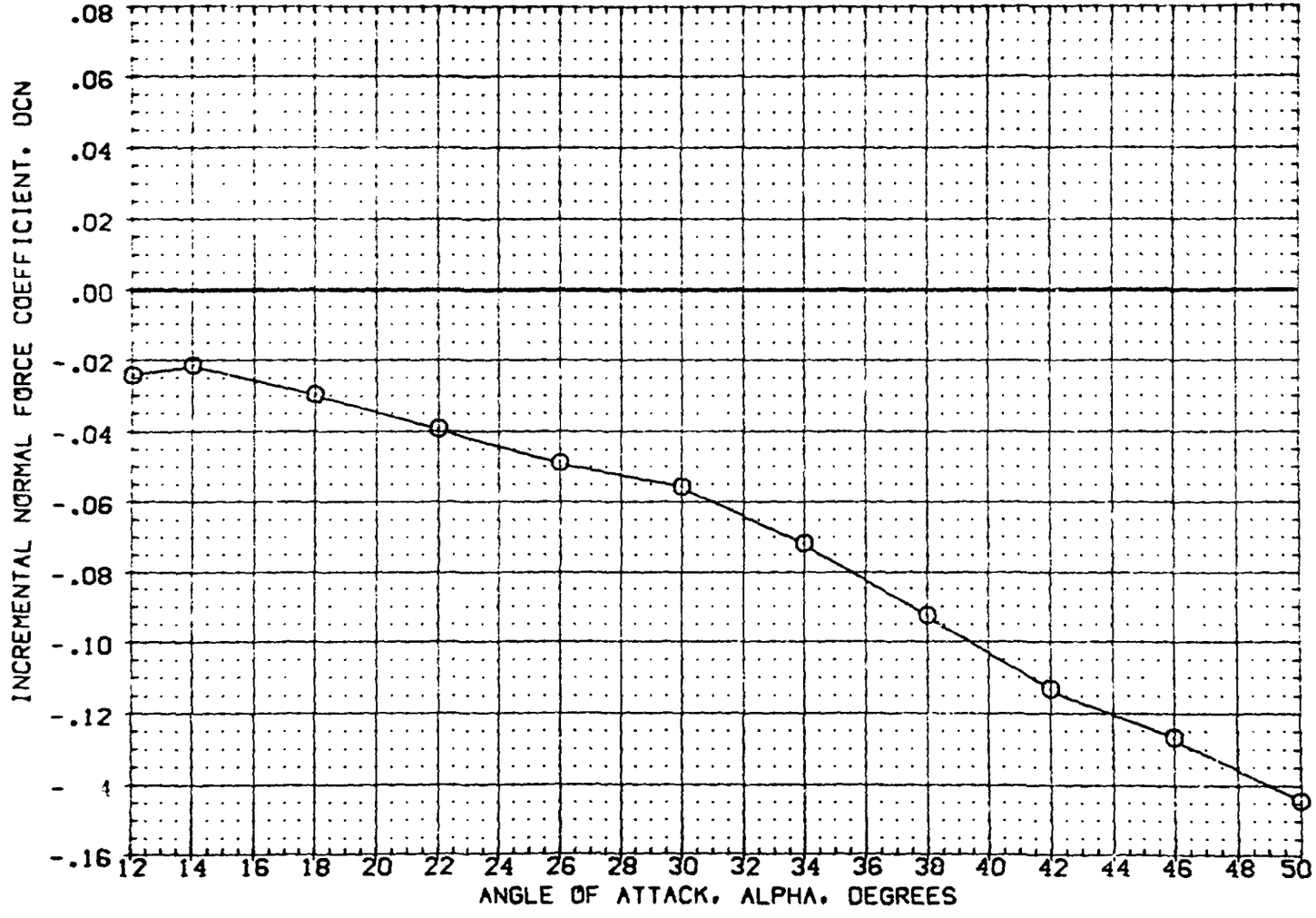


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6018)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000
(TB6020)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000
(TB6019)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(TB6021)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(TB6013)		DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

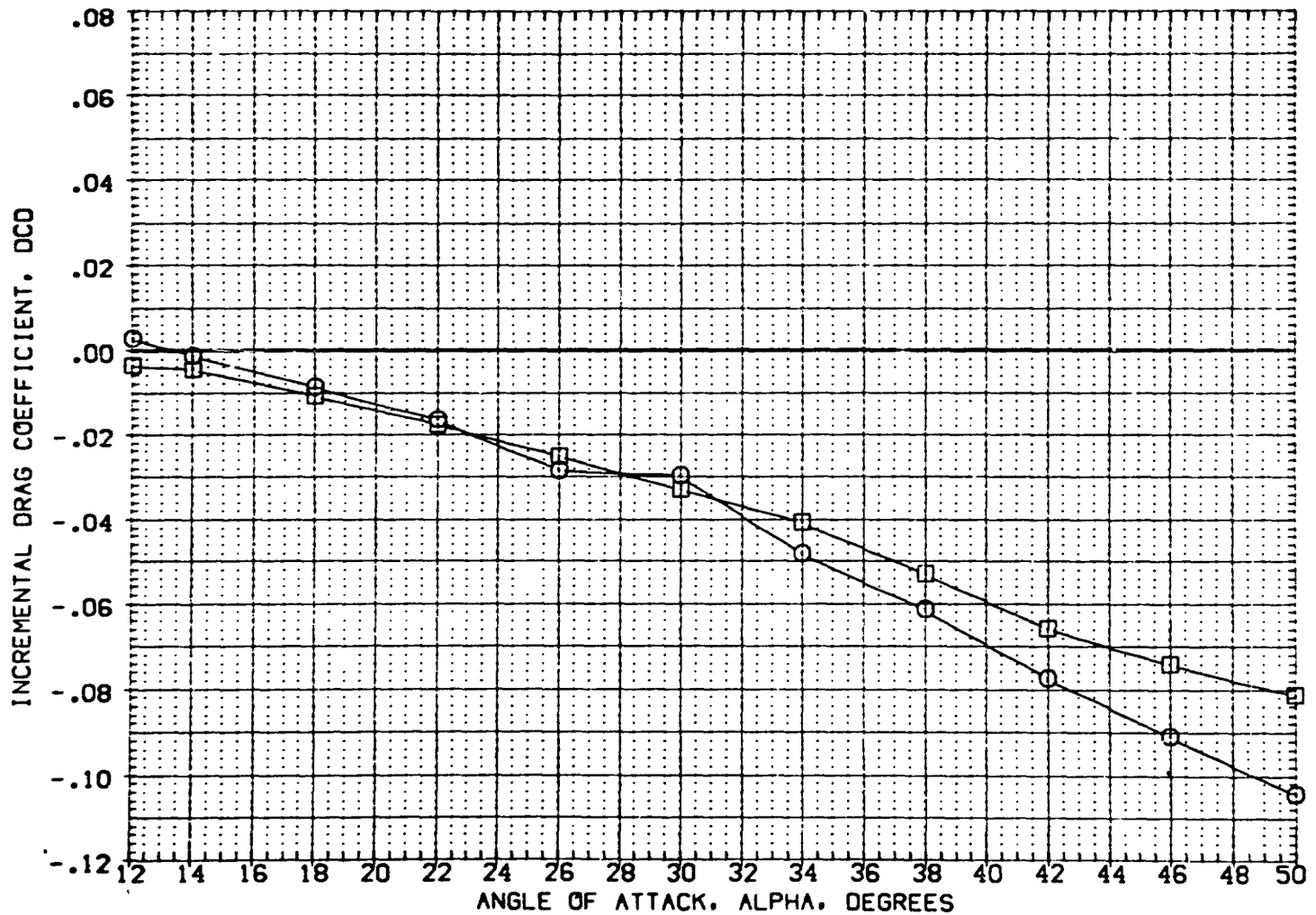


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6018)	○	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6020)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(TB6019)	◇	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000
(TB6021)	△	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000
(TB6013)	▽	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

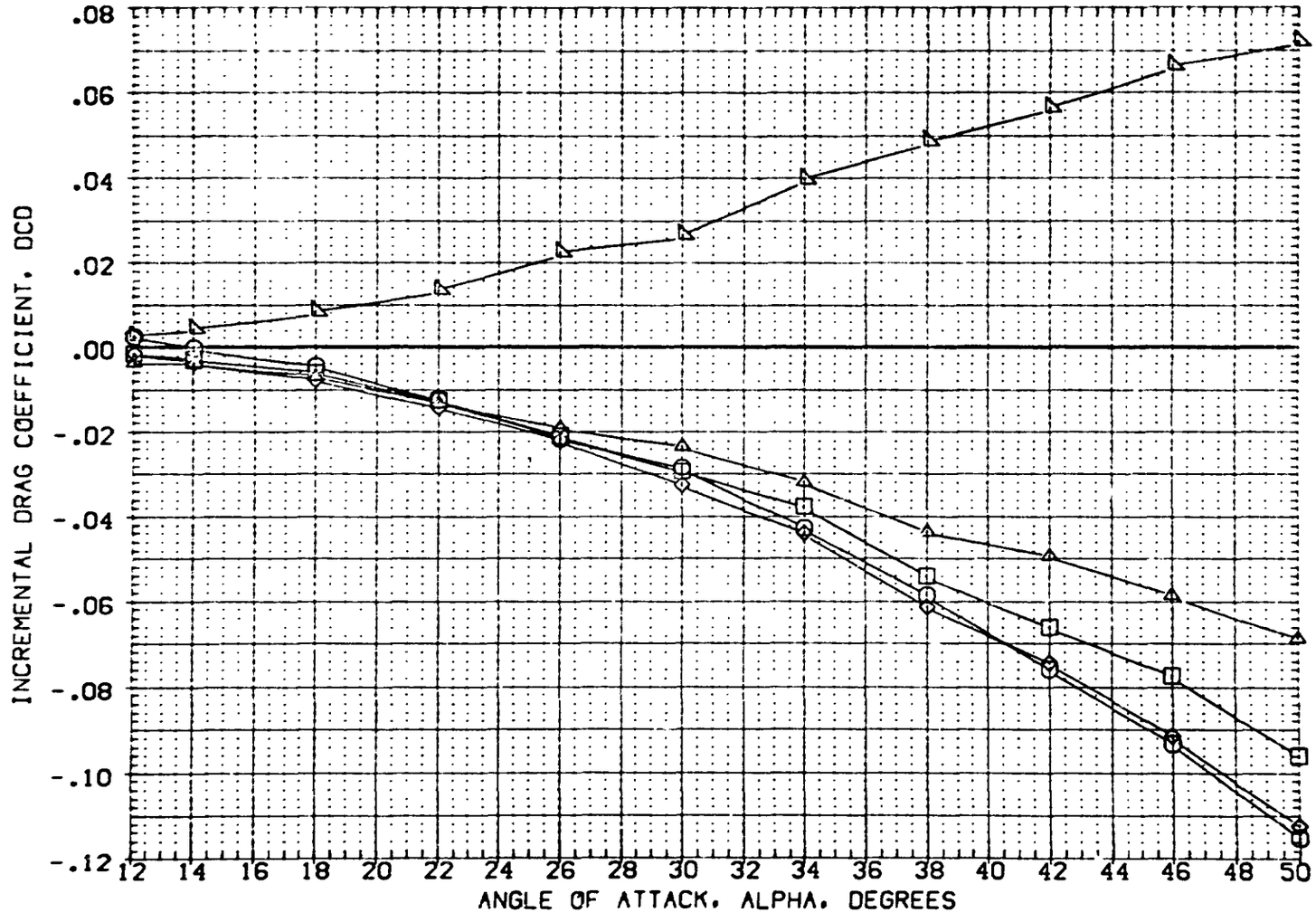


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000
(TB6020)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(TB6021)	△	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(TB6013)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

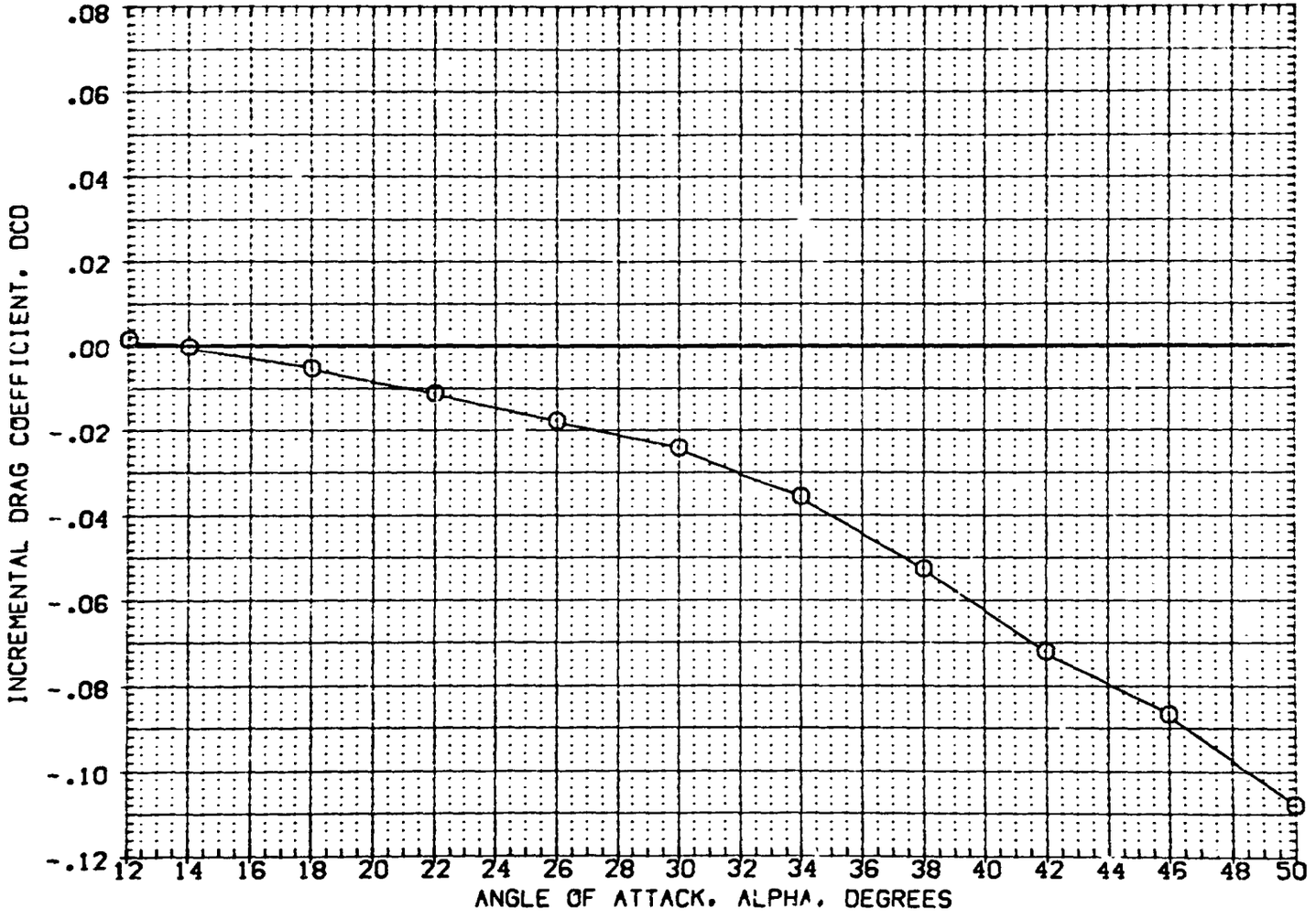


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6018)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6020)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(TB6019)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(TB6021)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(TB6013)		DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

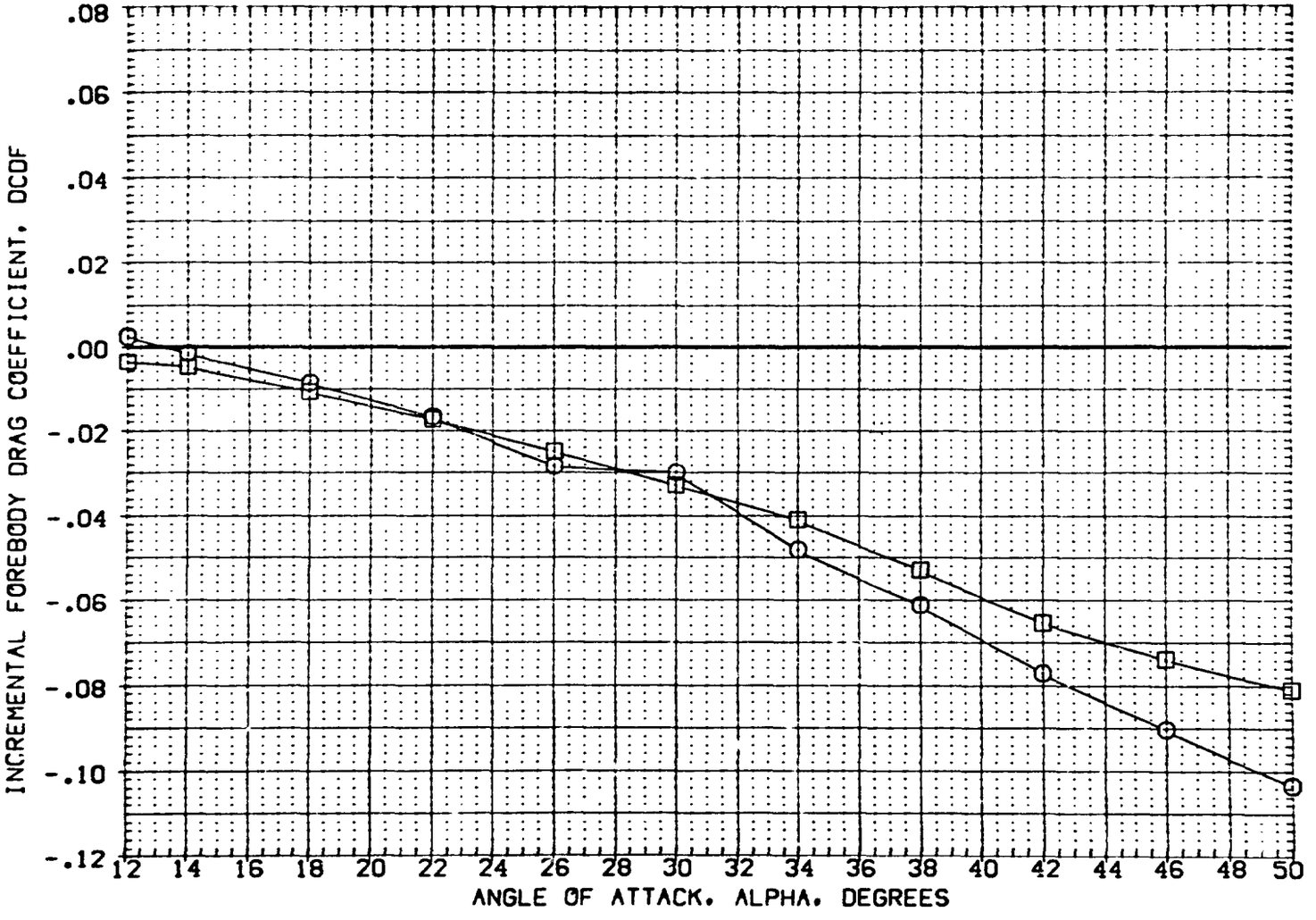


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(T86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(T86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF	474.8000	IN.
(T86019)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(T86021)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(T86013)	▷	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	-14.250	55.000	.000	YMRP	.0000	IN.
							ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

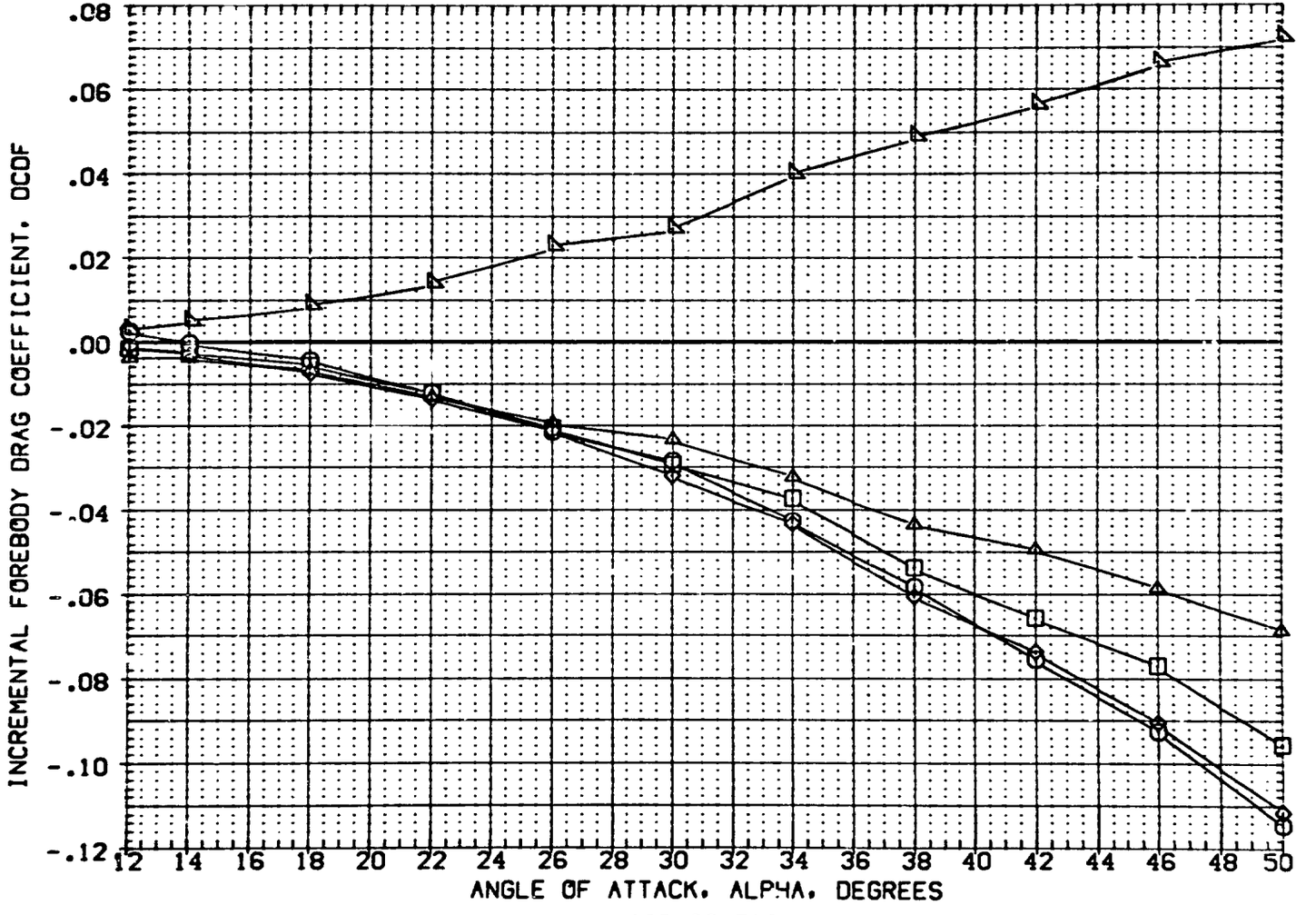


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(TB6018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6020)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(TB6021)	⋈	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(TB6013)	△	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

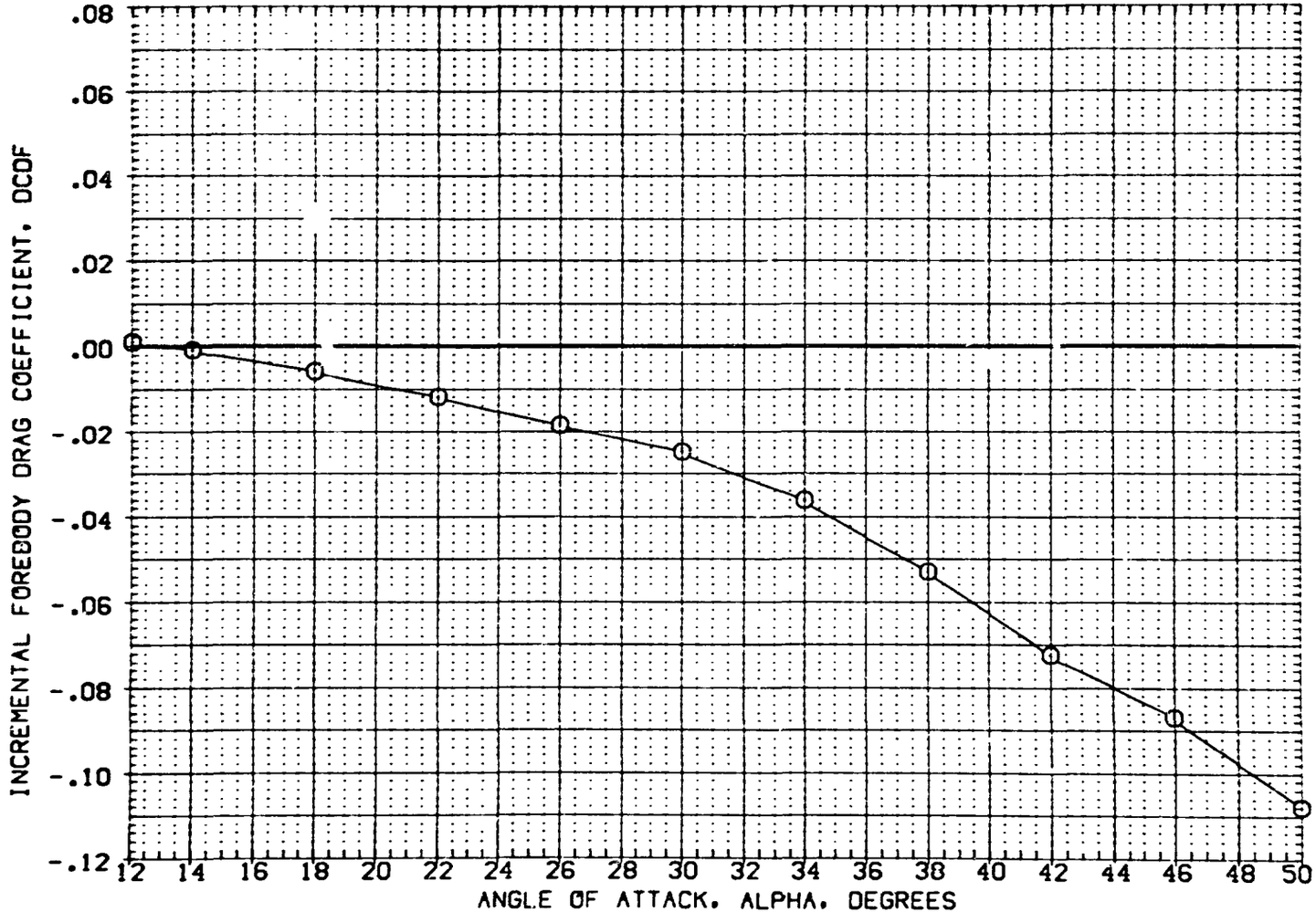


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(TB6018)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000
(TB6020)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000
(TB6019)	⊠	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(TB6021)	△	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(TB6013)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

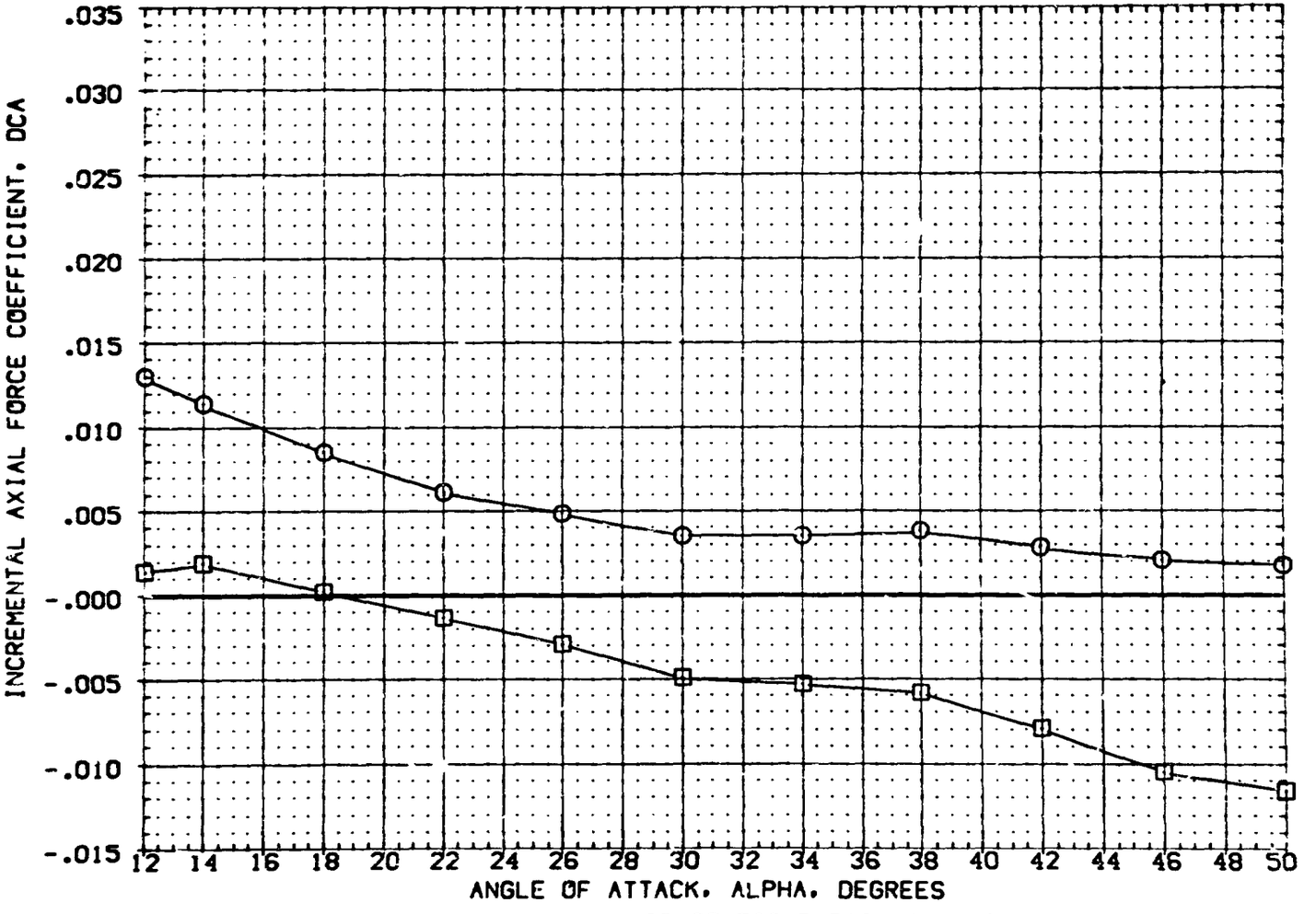


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

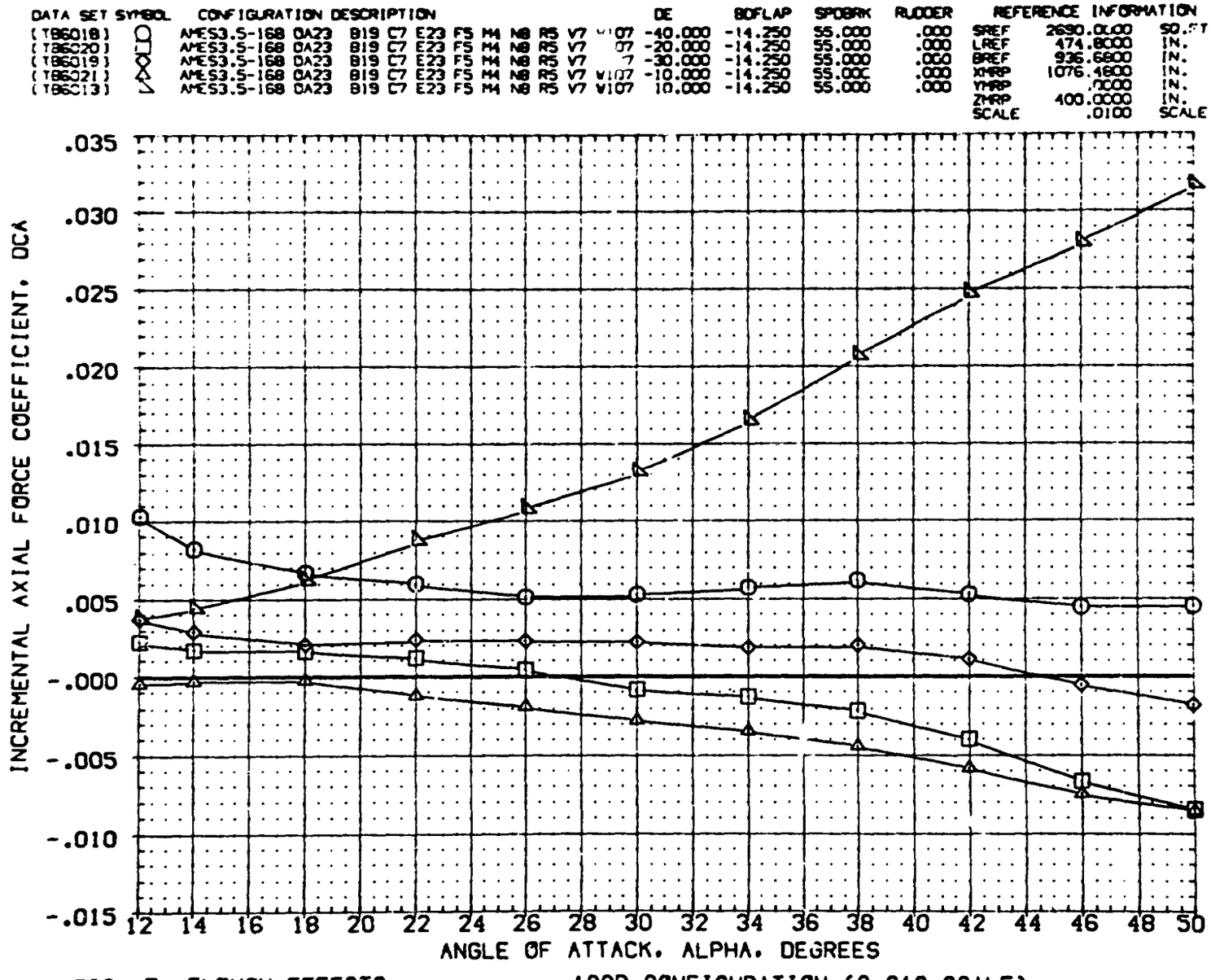


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(T86018)	○	AMES3.5-168 BA23 B19 C7 E23 F5 + N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(T86020)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(T86019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(T86021)	⊠	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(T86013)	△	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

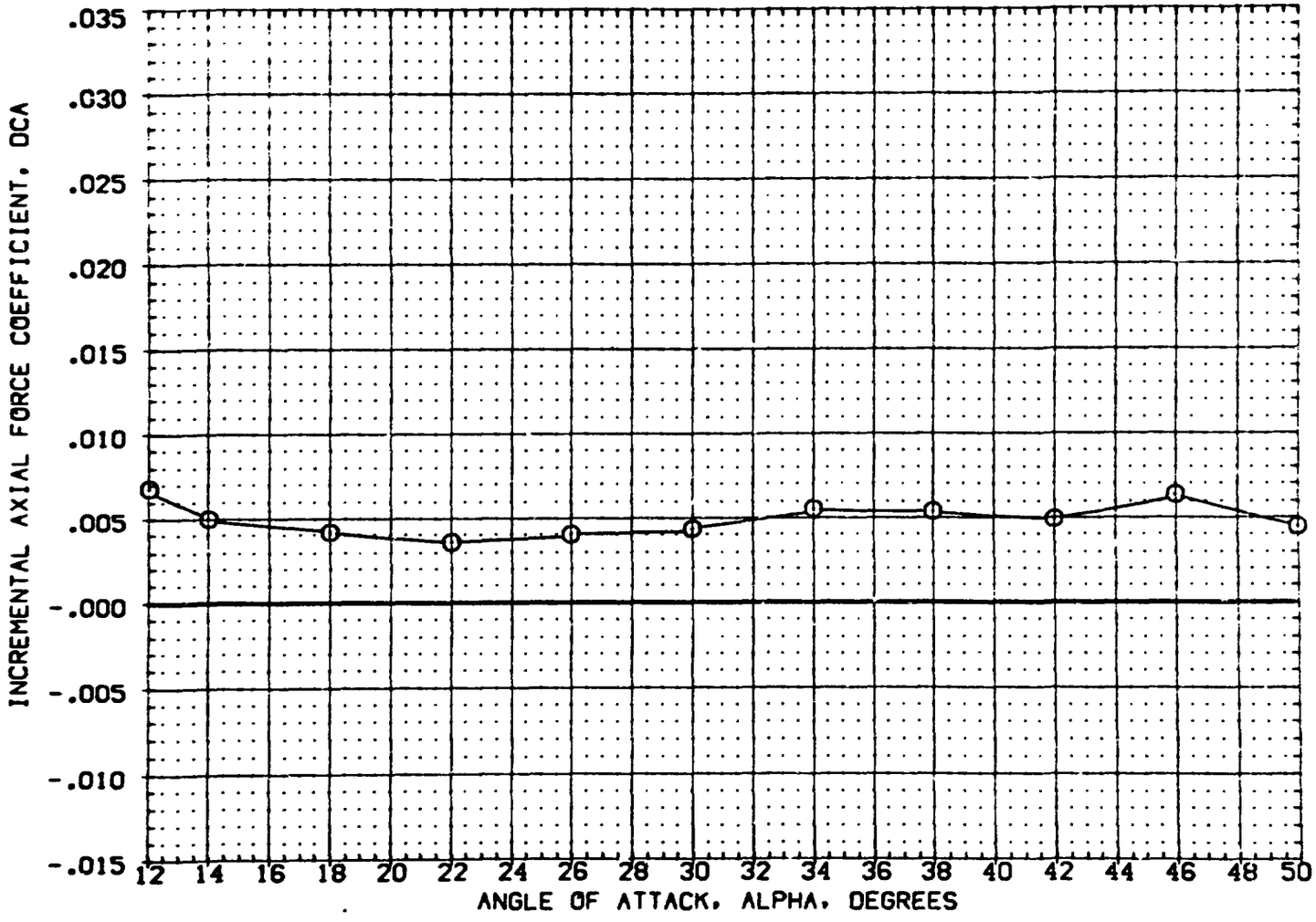


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(TB6018)	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(TB6020)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	LREF	474.8000	IN.
(TB6019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800	IN.
(TB6021)	⋈	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP	1076.4800	IN.
(TB6013)	◺	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP	.0000	IN.
							ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

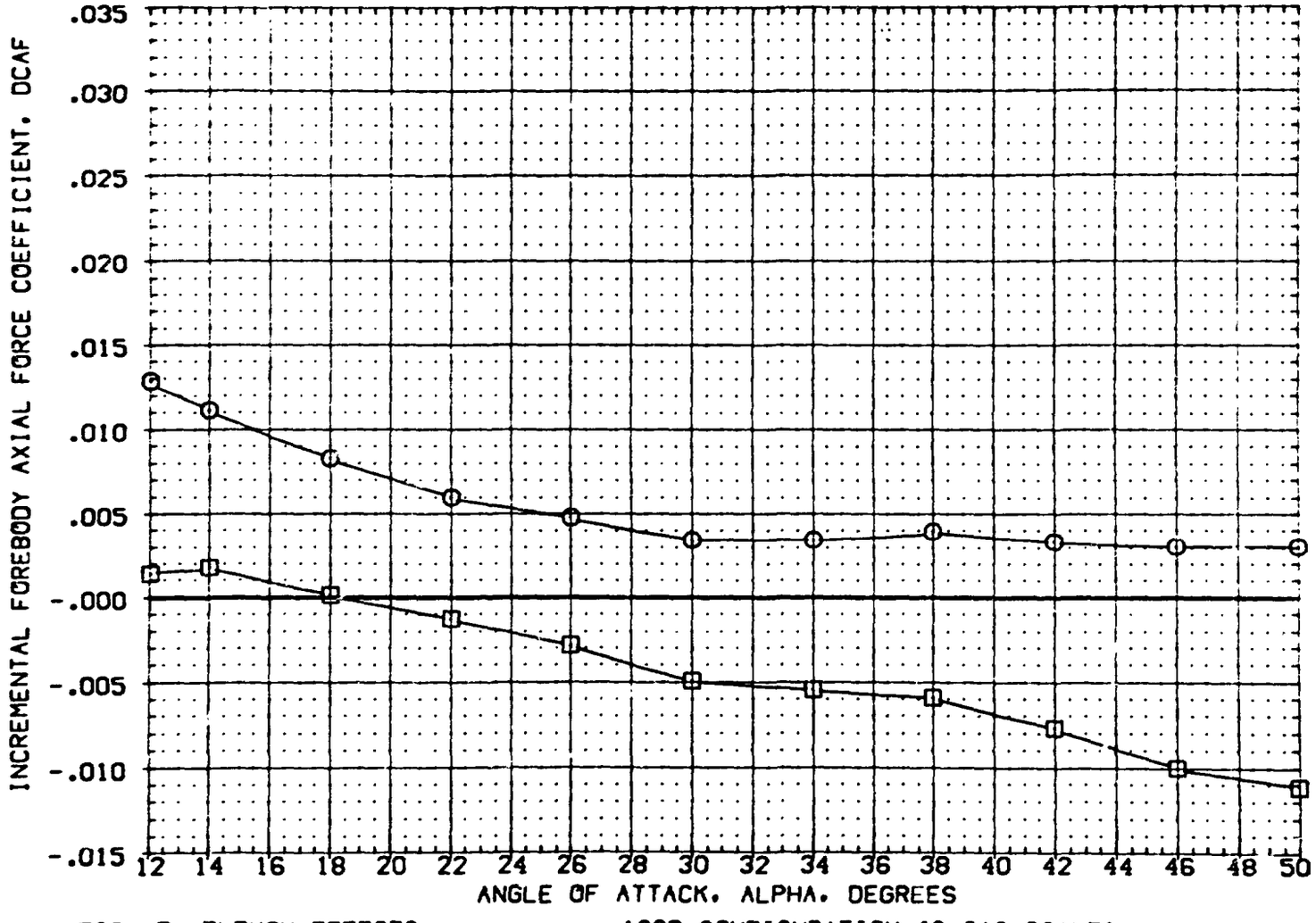


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

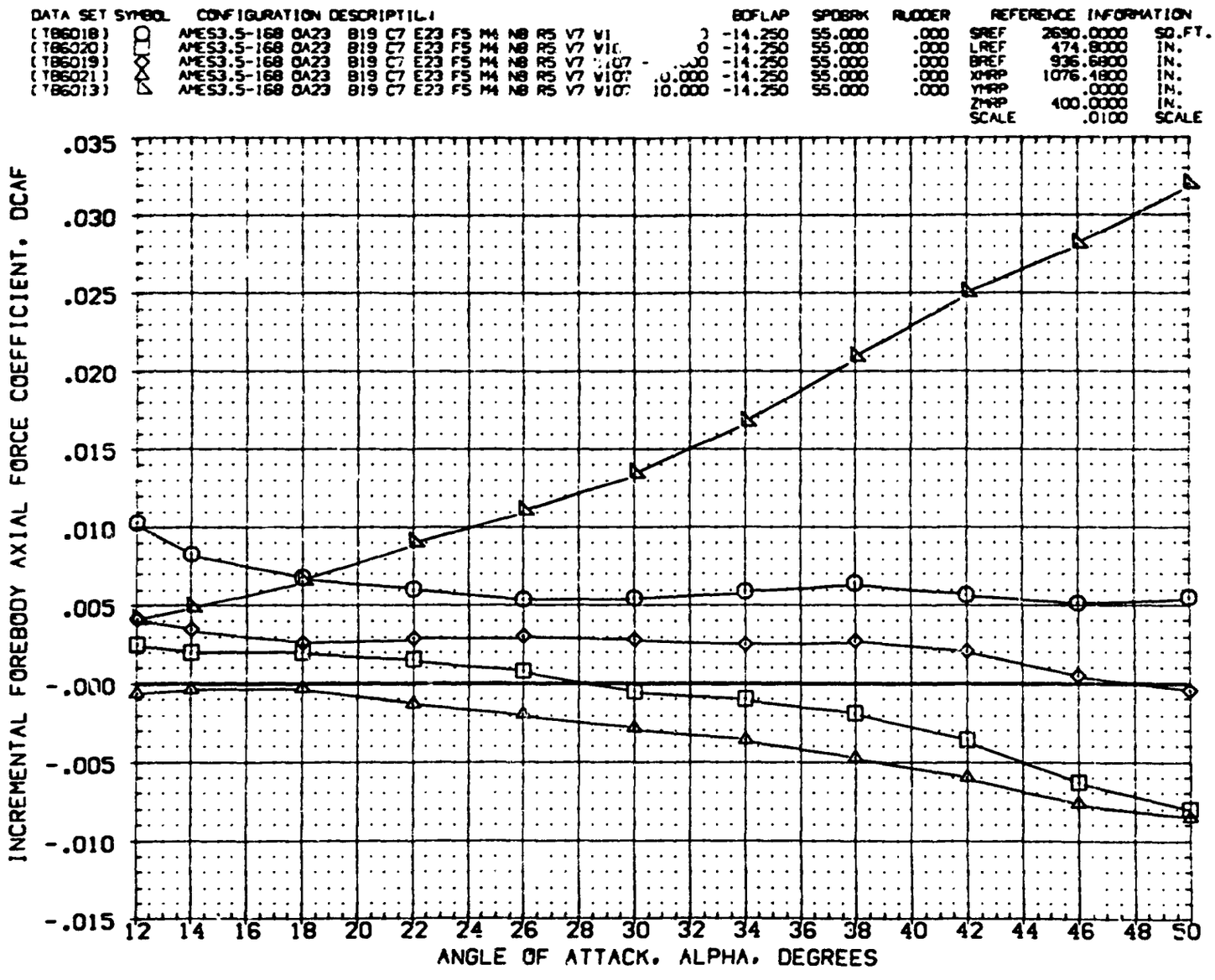


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(TB6018)	○	AMES3.5-168 0A22 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6020)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(TB6021)	◁	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(TB6013)	△	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

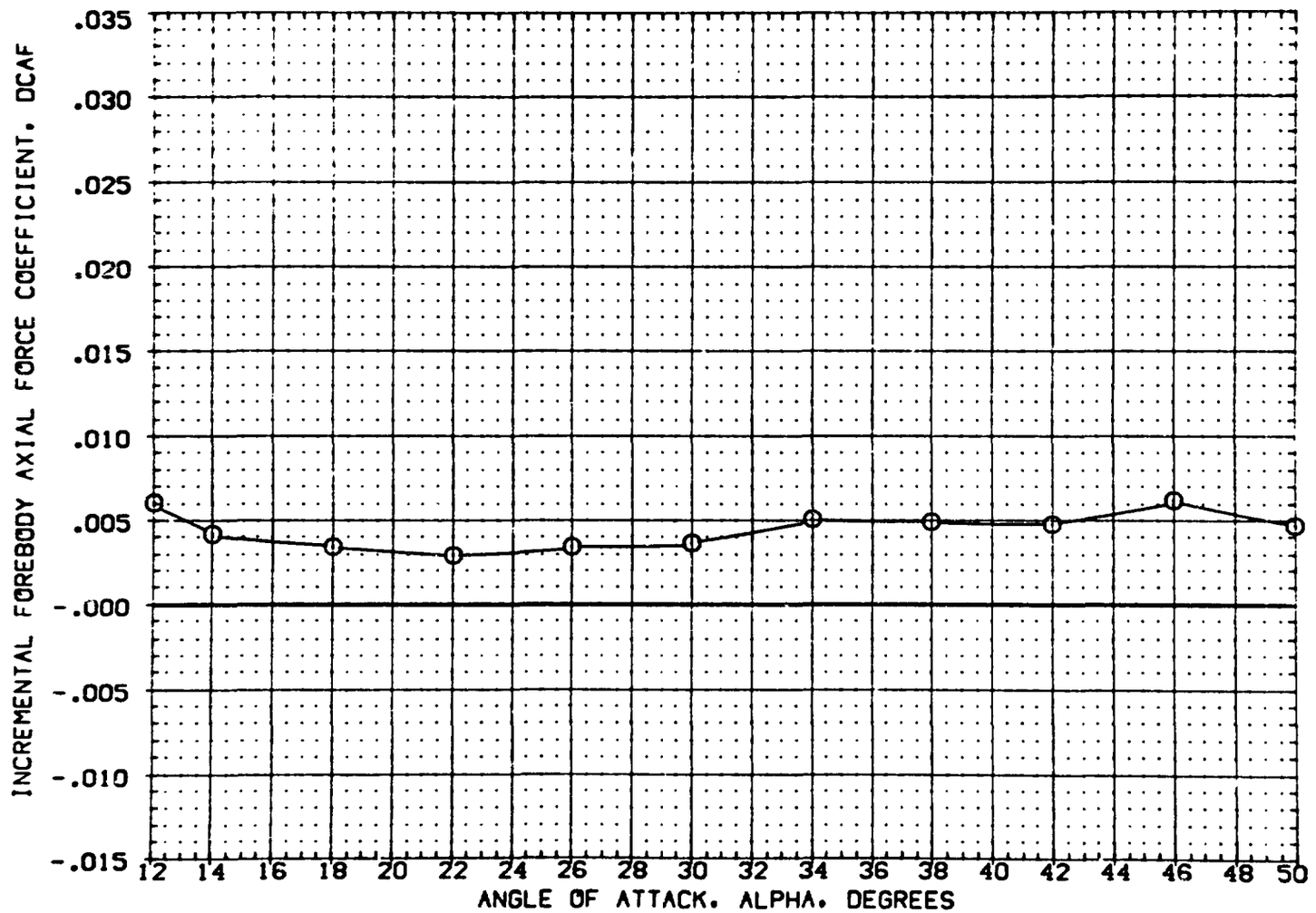


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER
(T86018)	○	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000
(T86020)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000
(T86019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(T86021)	△	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(T86013)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

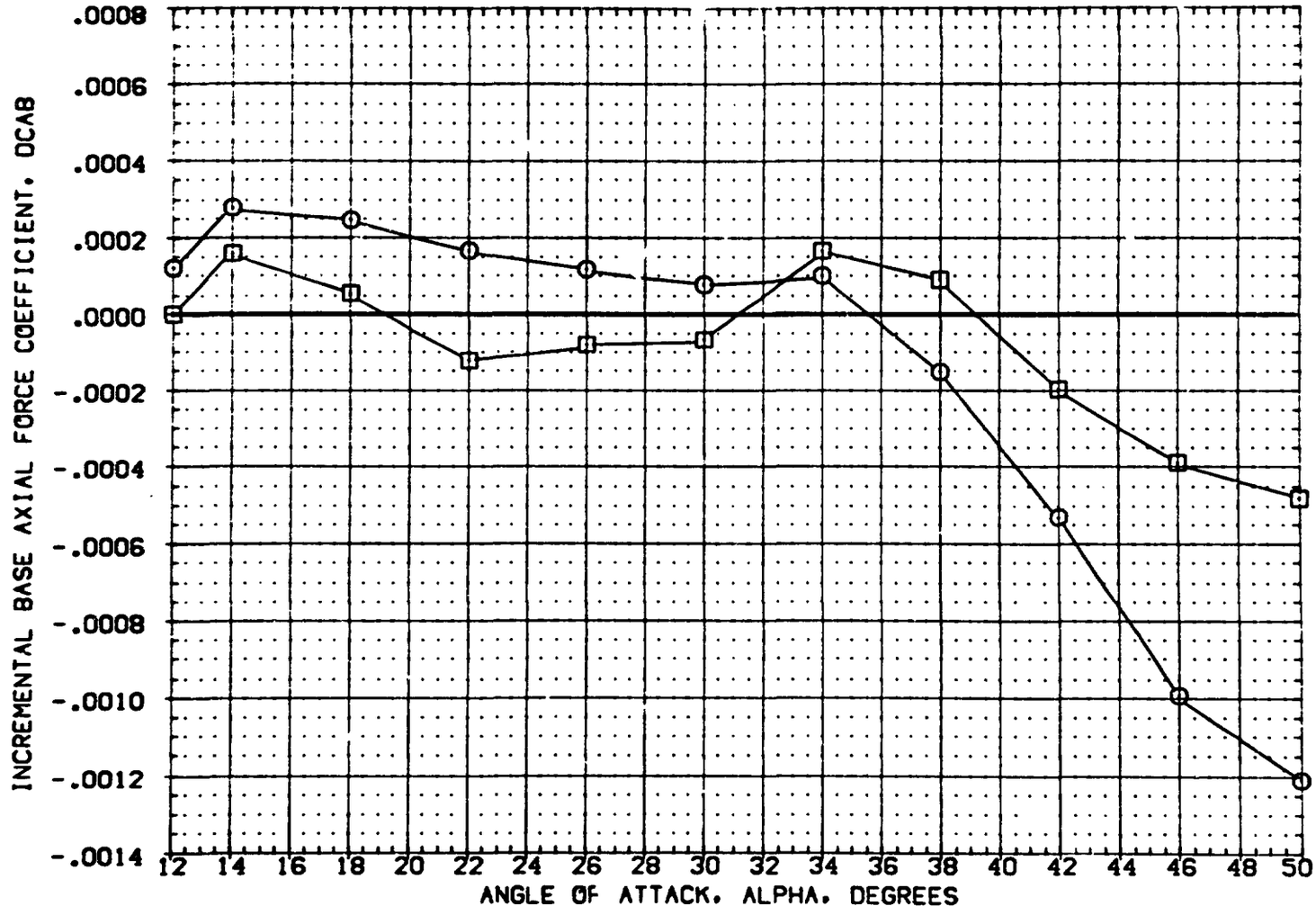


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(T86018)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(T86020)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(T86019)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000
(T86021)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000
(T86013)	▽	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

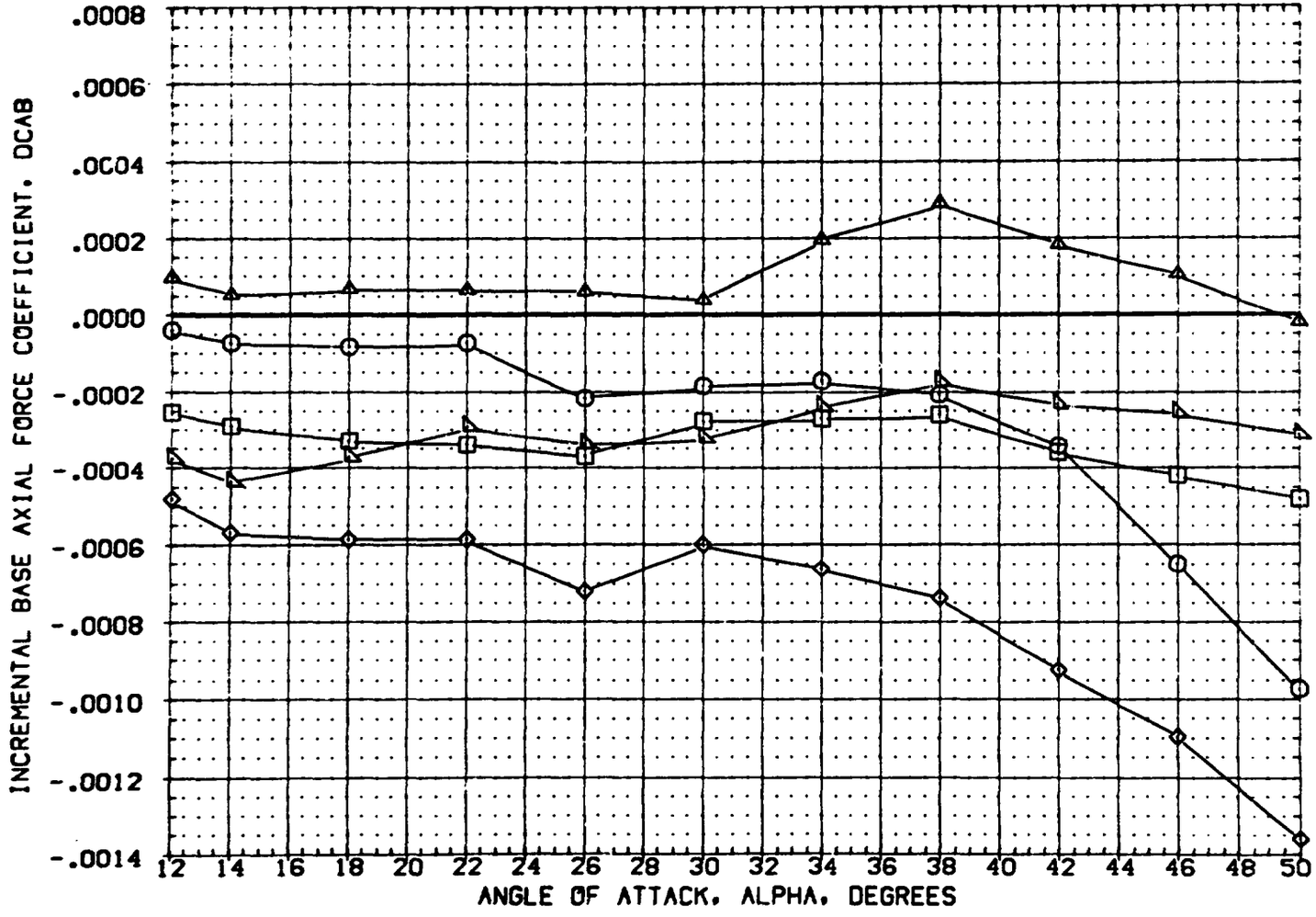


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER
(TB6018)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000
(TB6020)	▽	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(TB6019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(TB6021)	△	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(TB6013)	◁	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

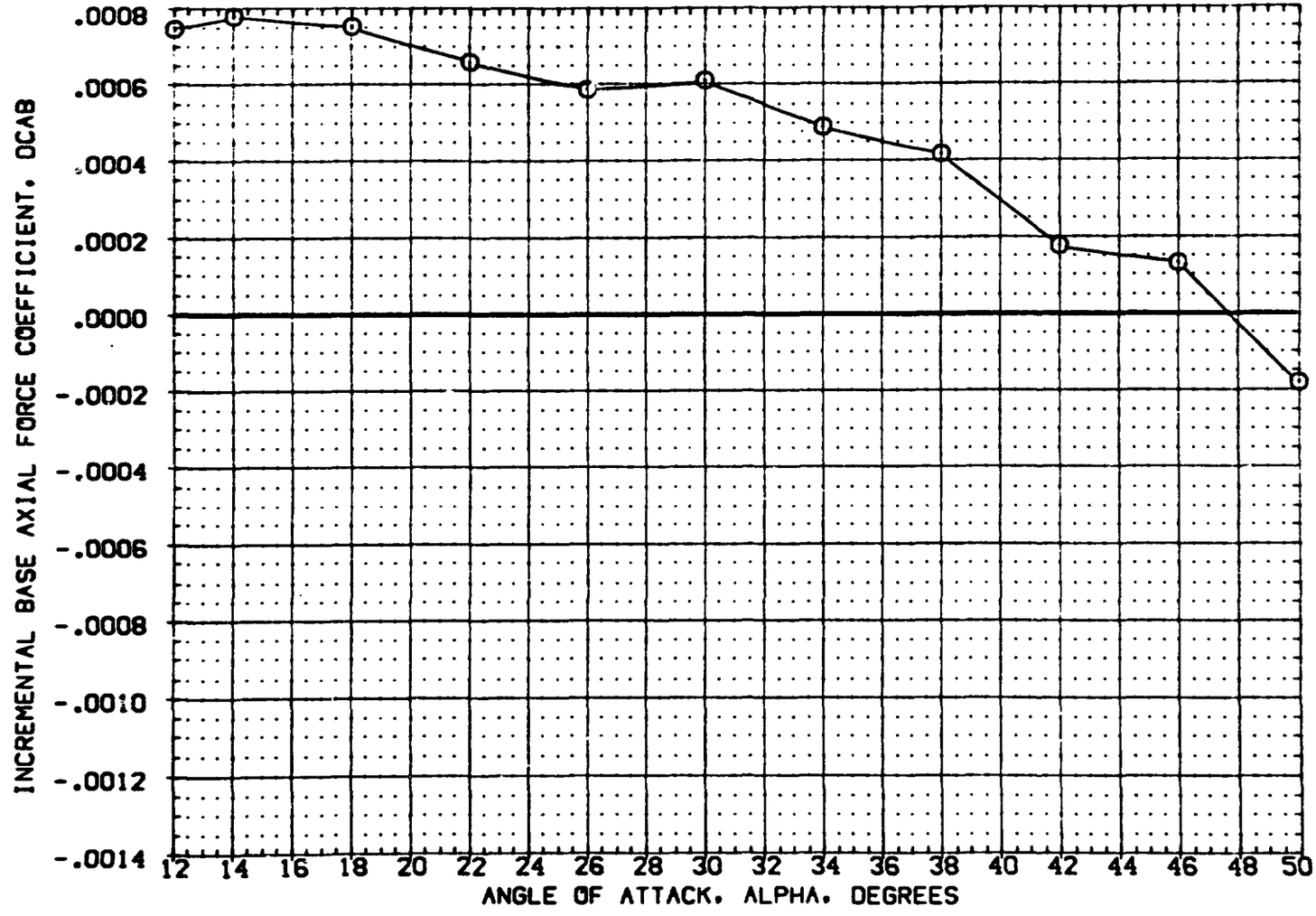


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(T86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000
(T86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000
(T86019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(T86021)	⋈	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(T86013)	△	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

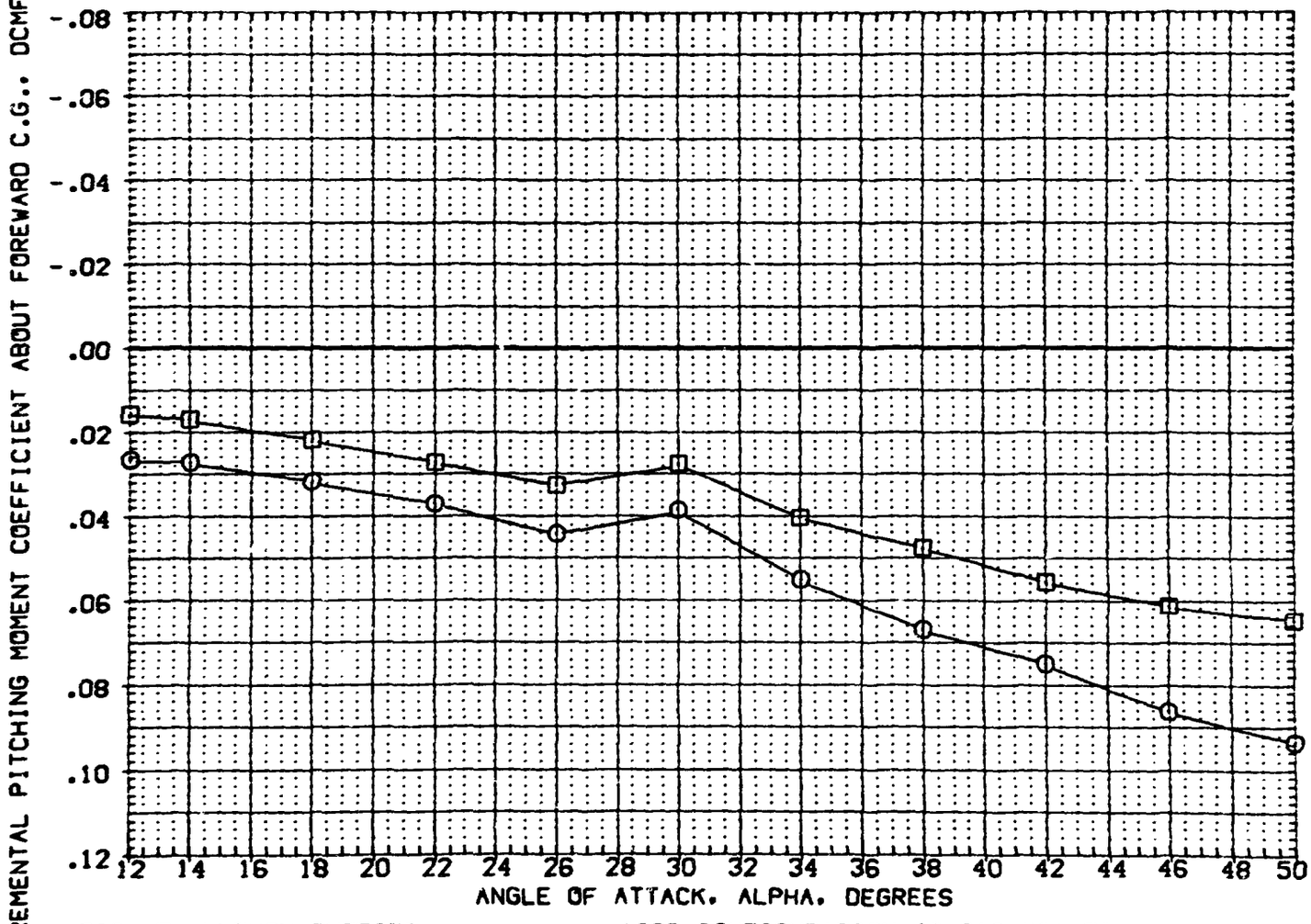


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

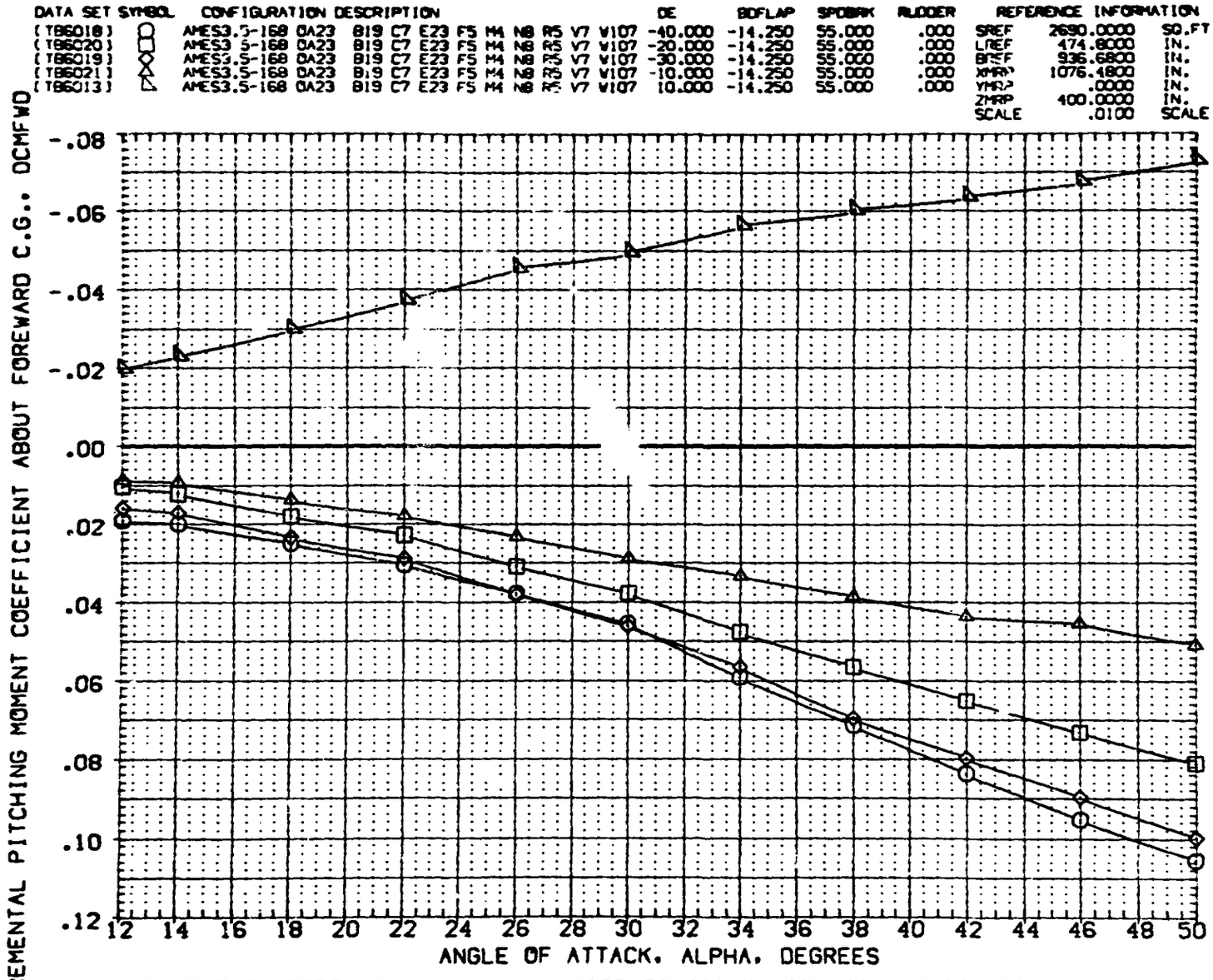


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(T86018)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.750	55.000	.000
(T86020)		DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000
(T86019)	⊠	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(T86021)	◁▷	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(T86013)	△	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

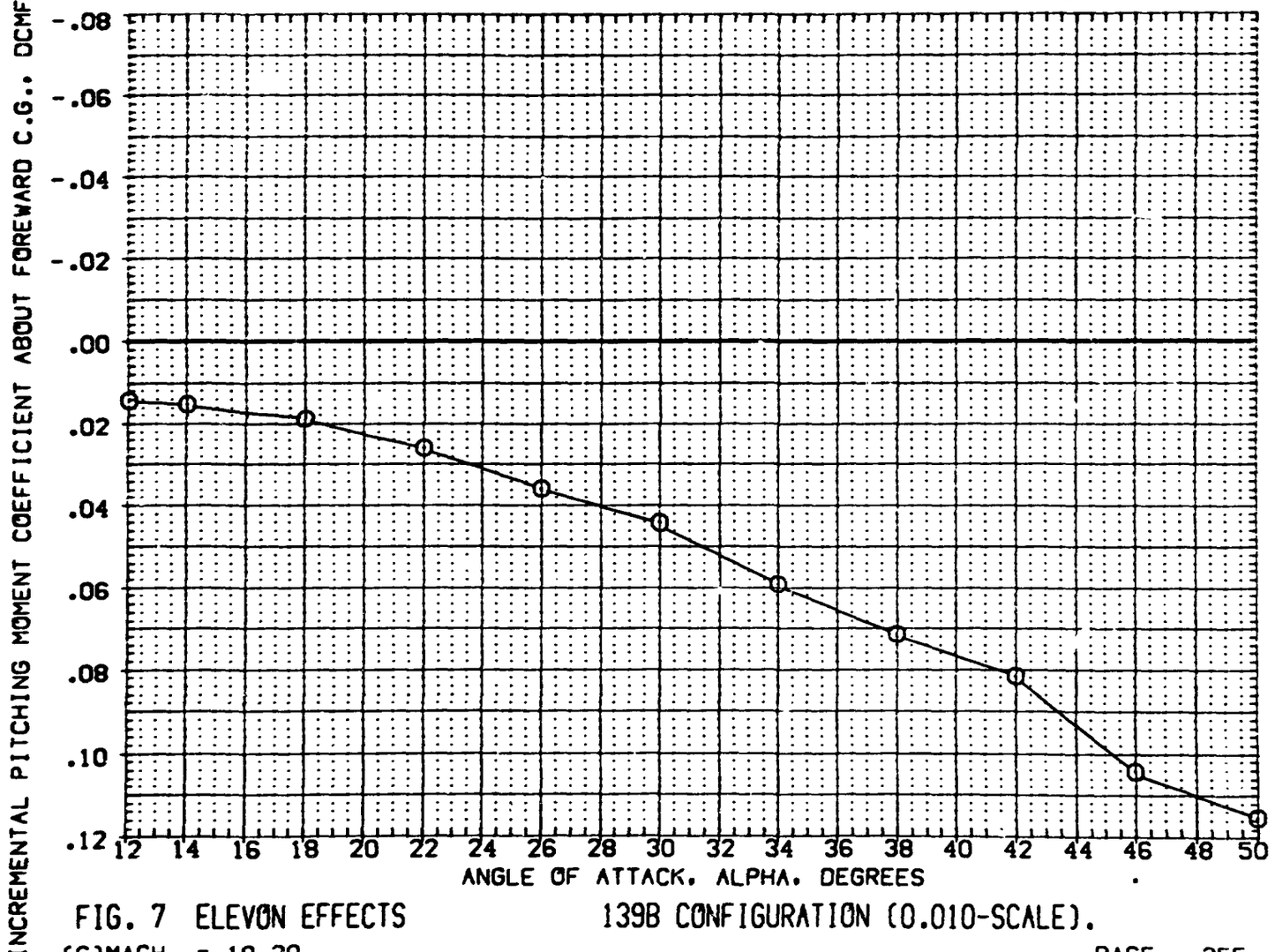


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(T86018)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(T86020)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000
(T86019)	⊠	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000
(T86021)	△	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000
(T86013)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

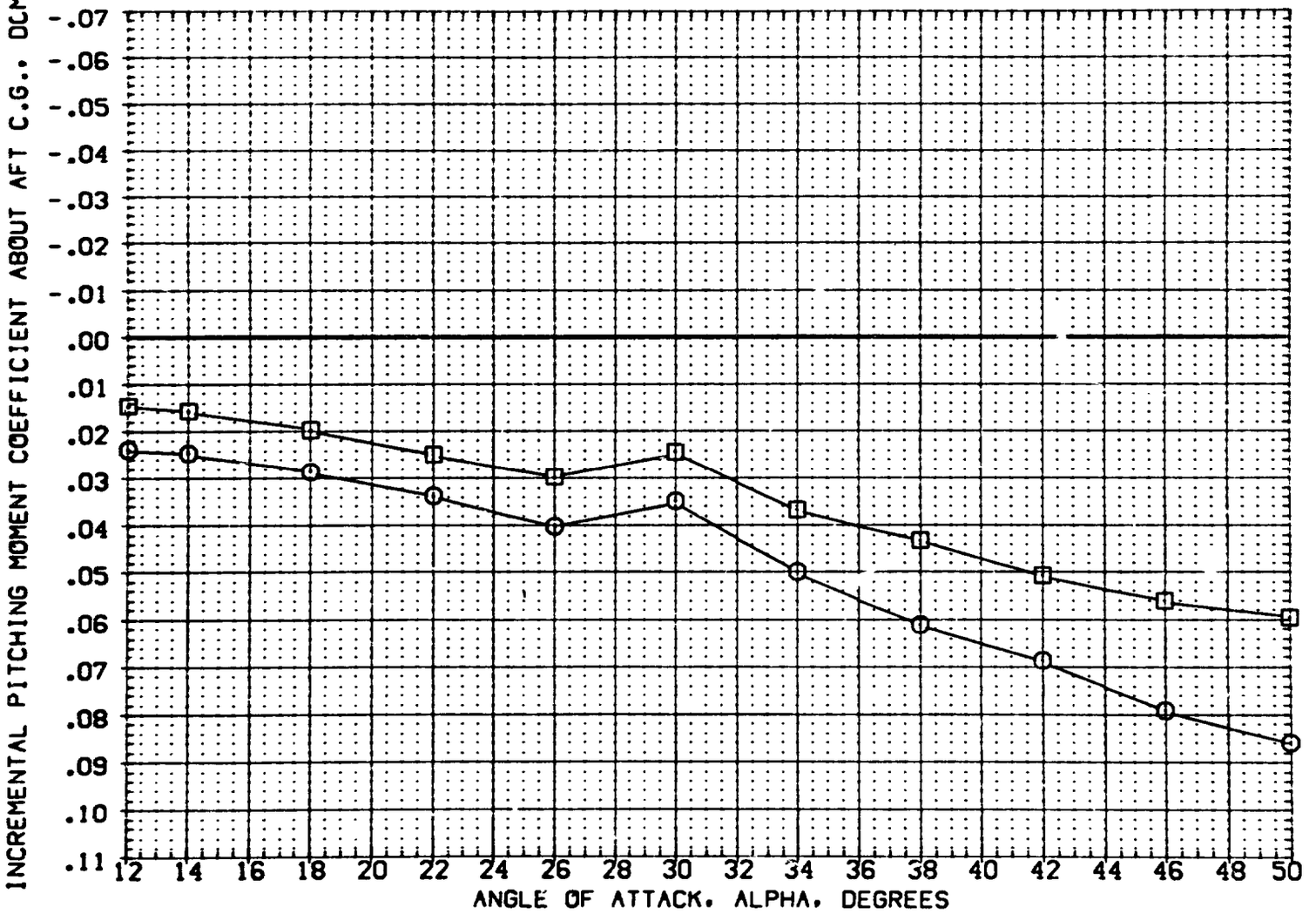


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

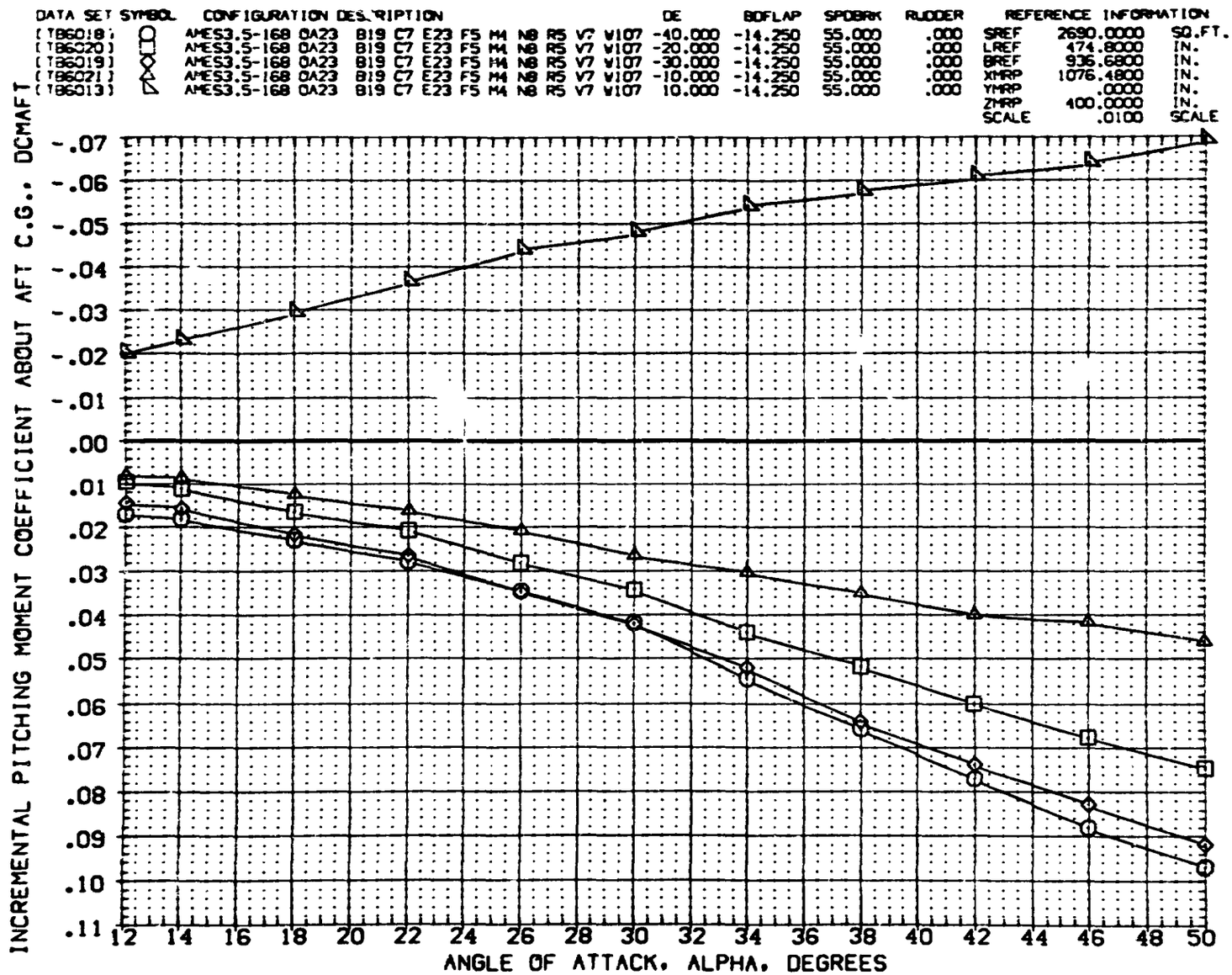


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

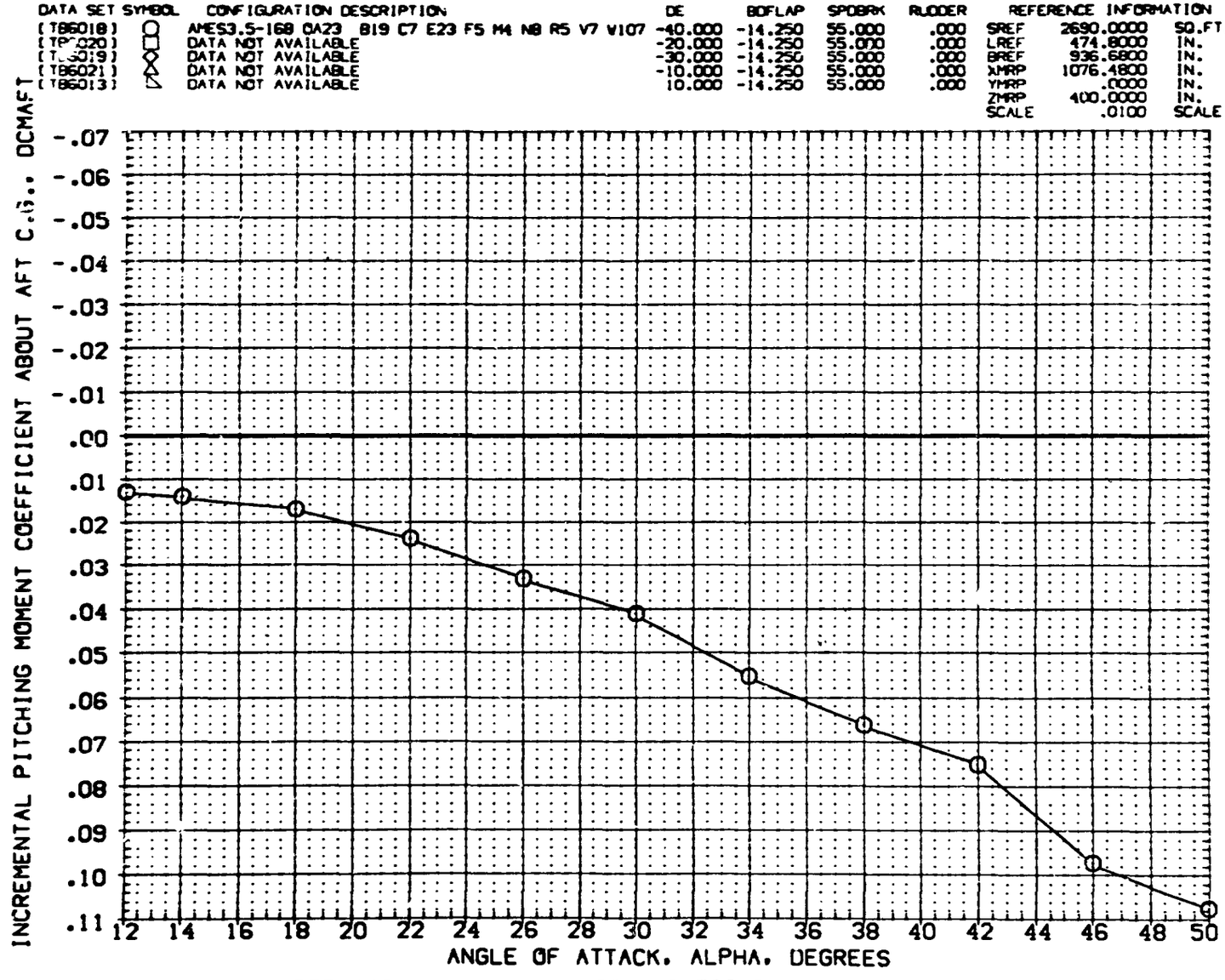


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(J86018)		AMES3.5-168 0A23 BI[illegible] C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(J86020)		AMES3.5-168 0A23 BI[illegible] C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

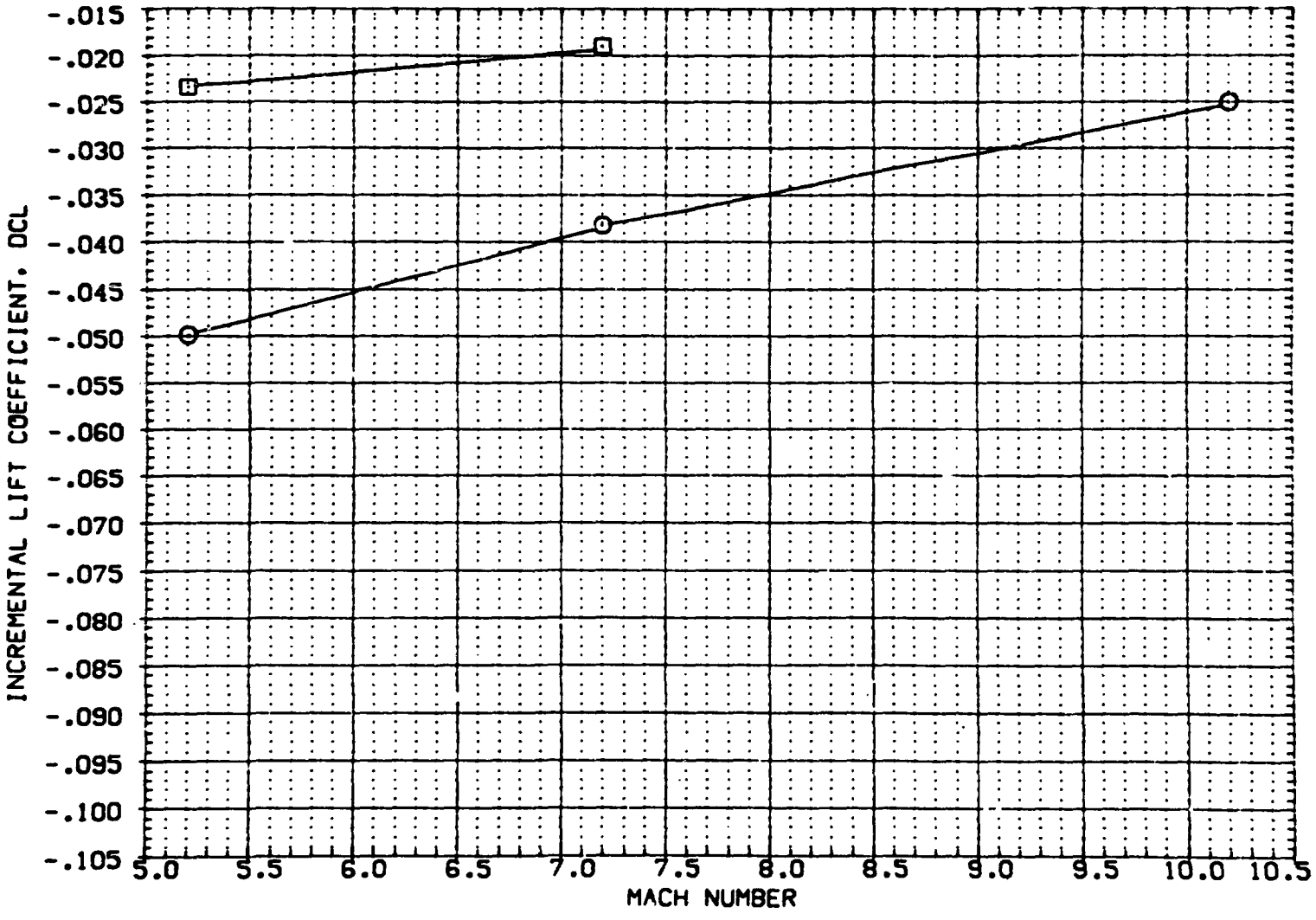


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

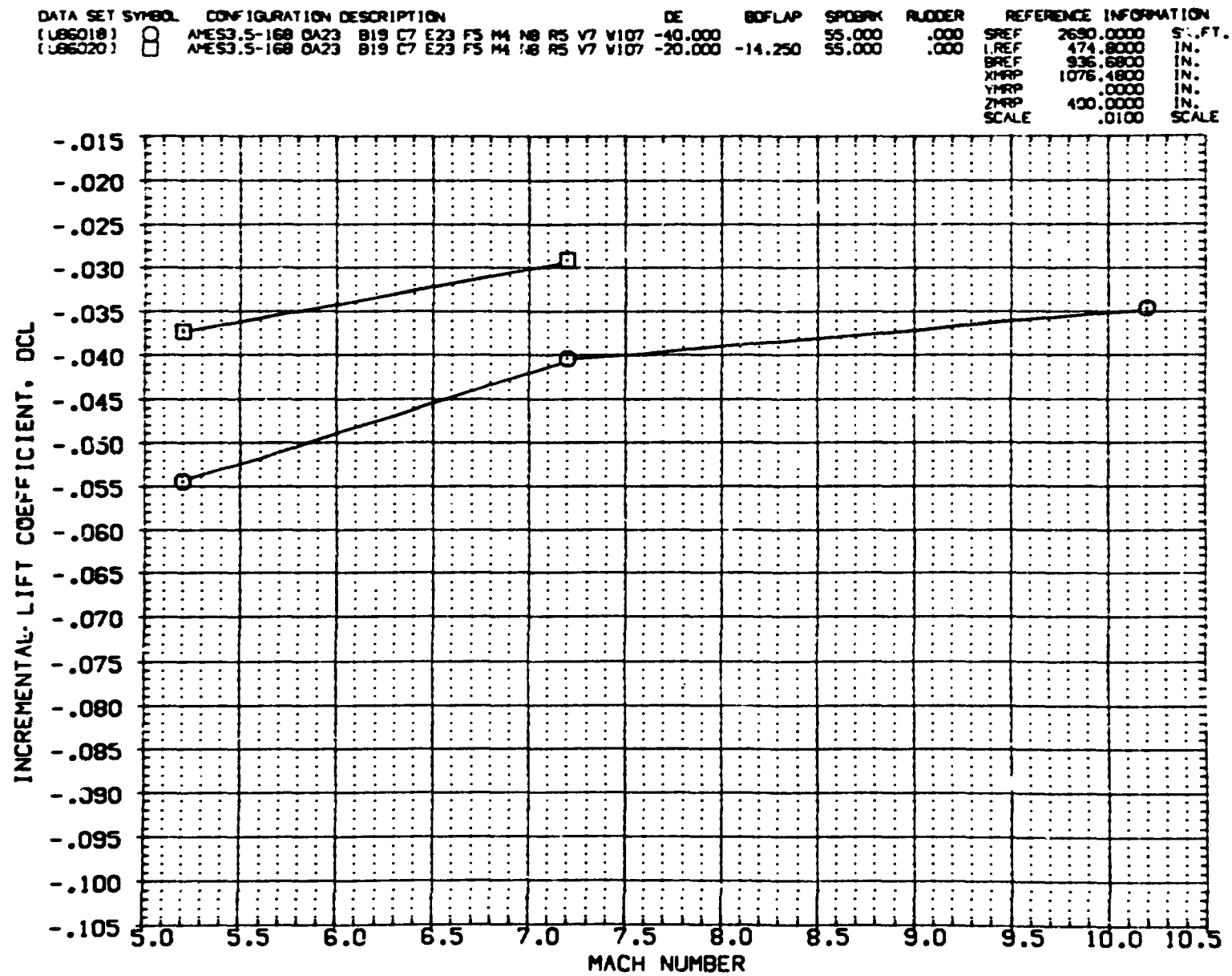


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(686018)	3	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(686020)	3	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

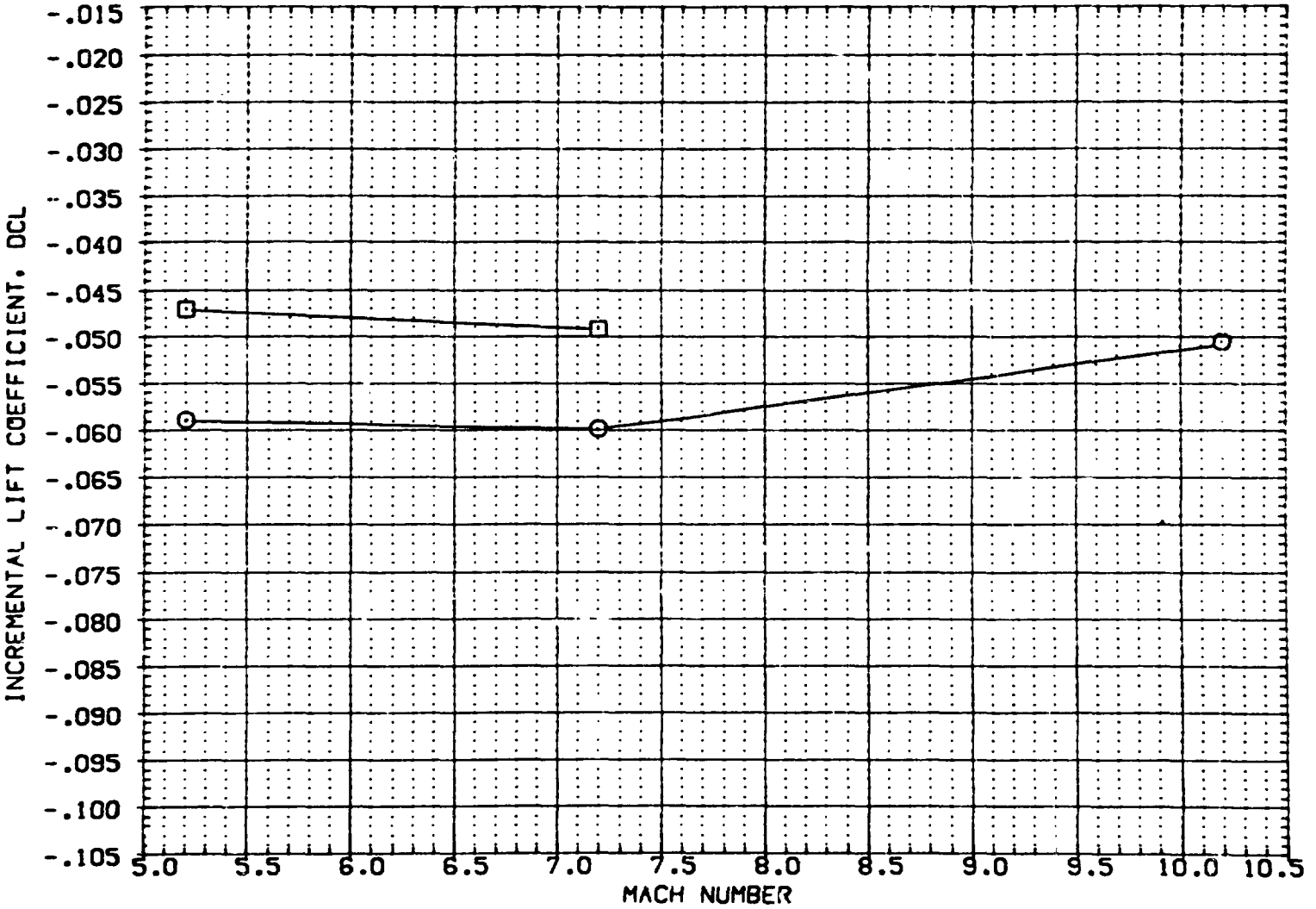


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

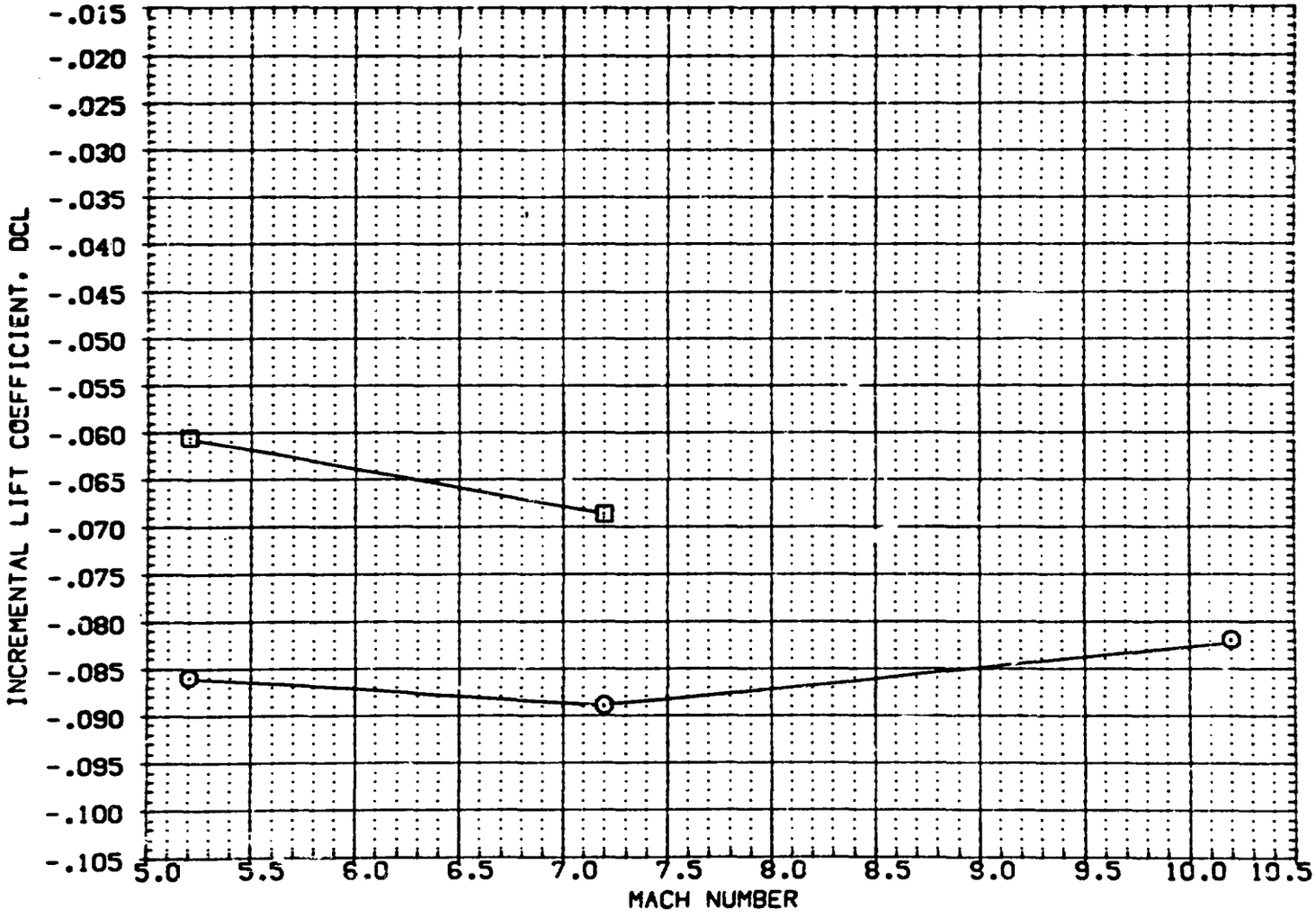


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(U86018)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000
(U86020)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

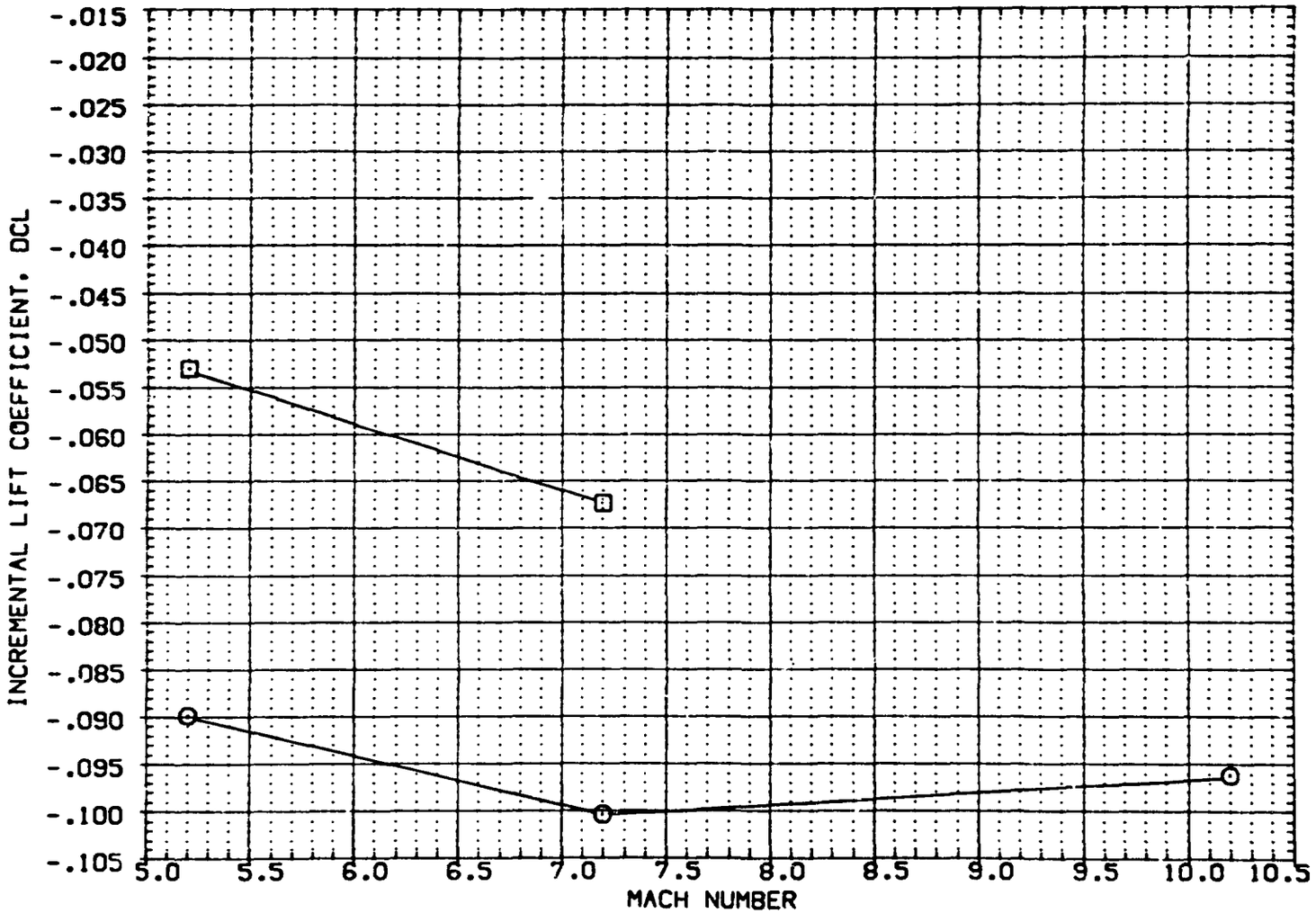


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(L86018)	8	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000
(L86020)	8	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2680.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

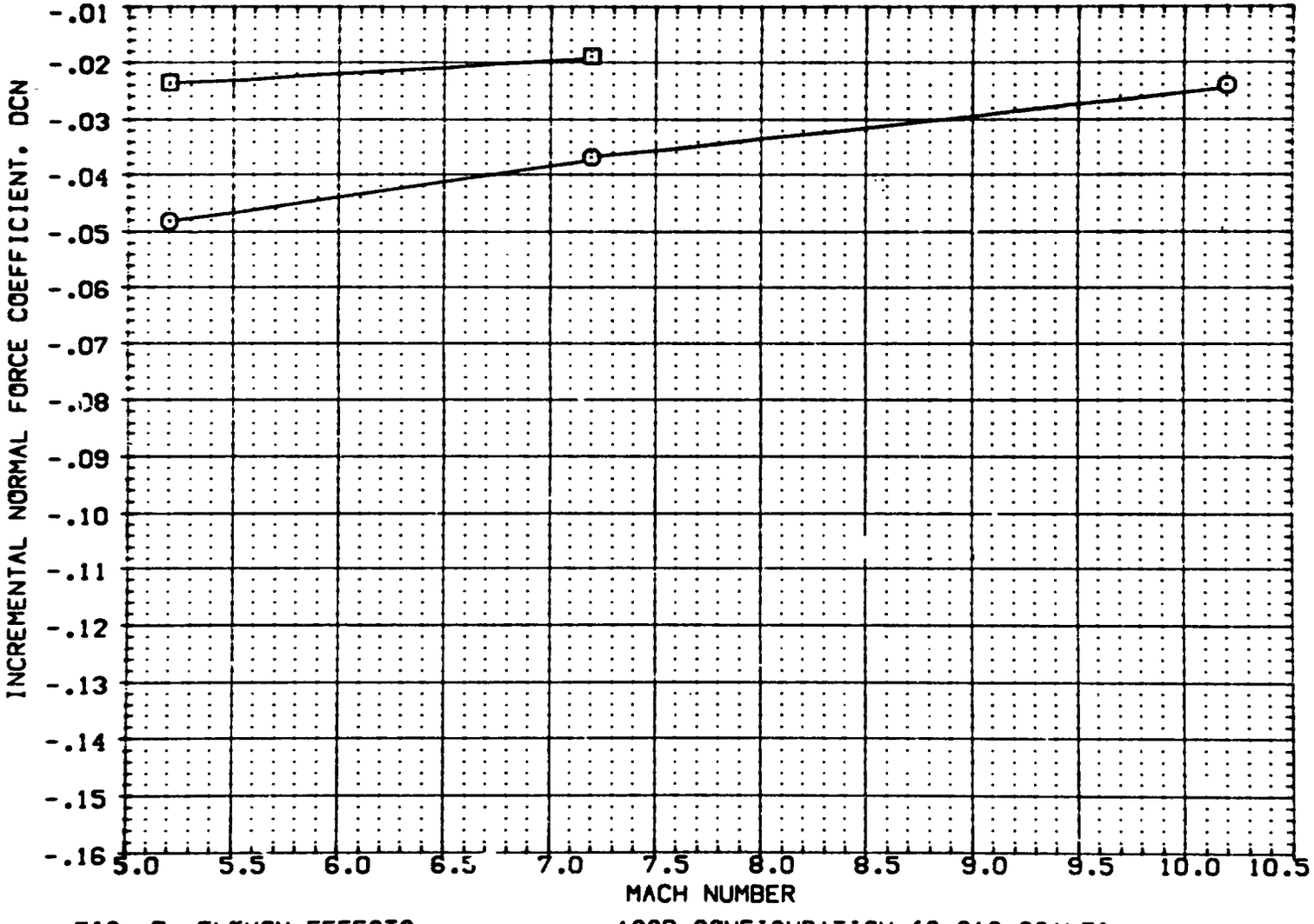


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(U86018)		AMES3.S-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)		AMES3.S-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

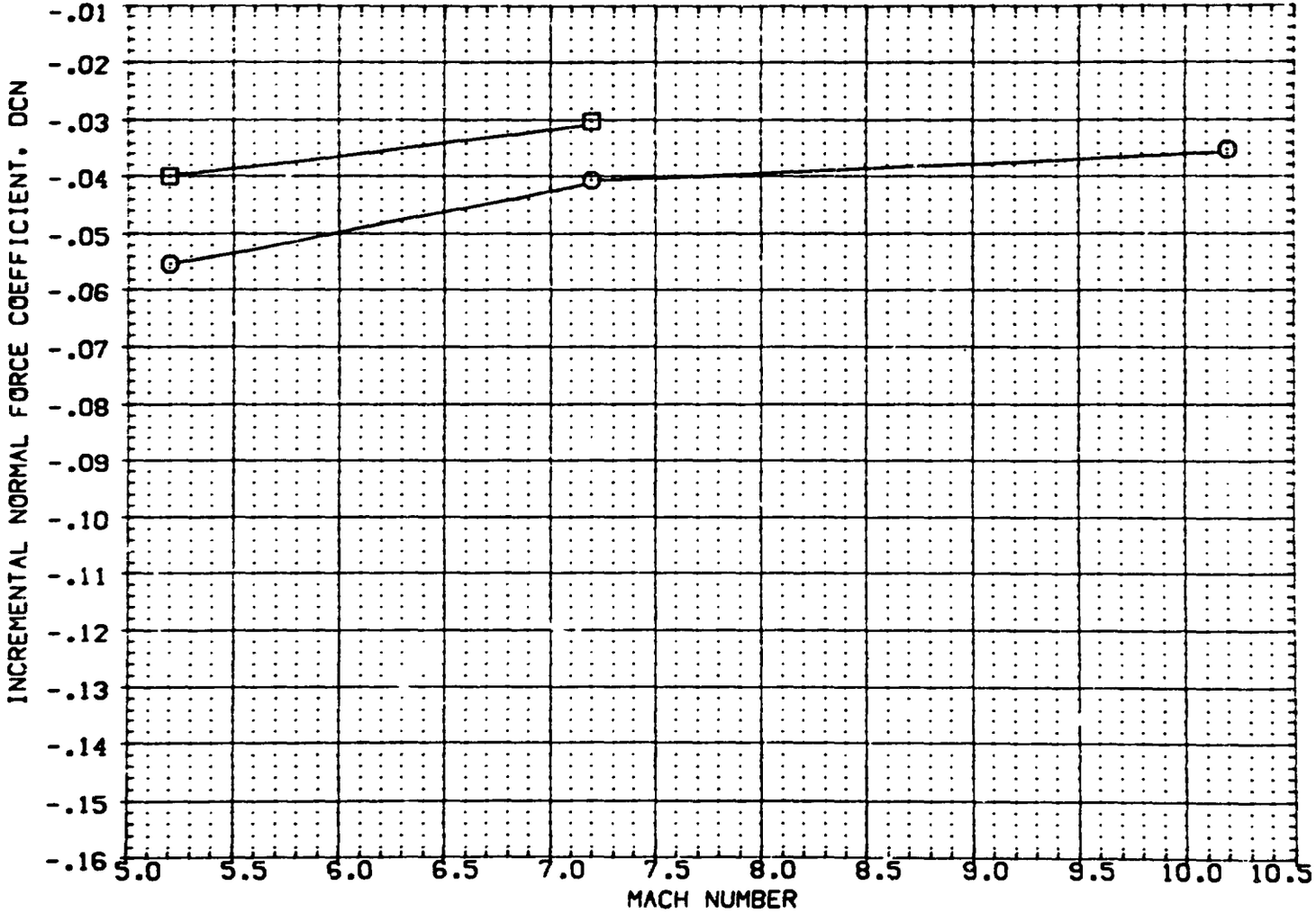


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(U86018)	○	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

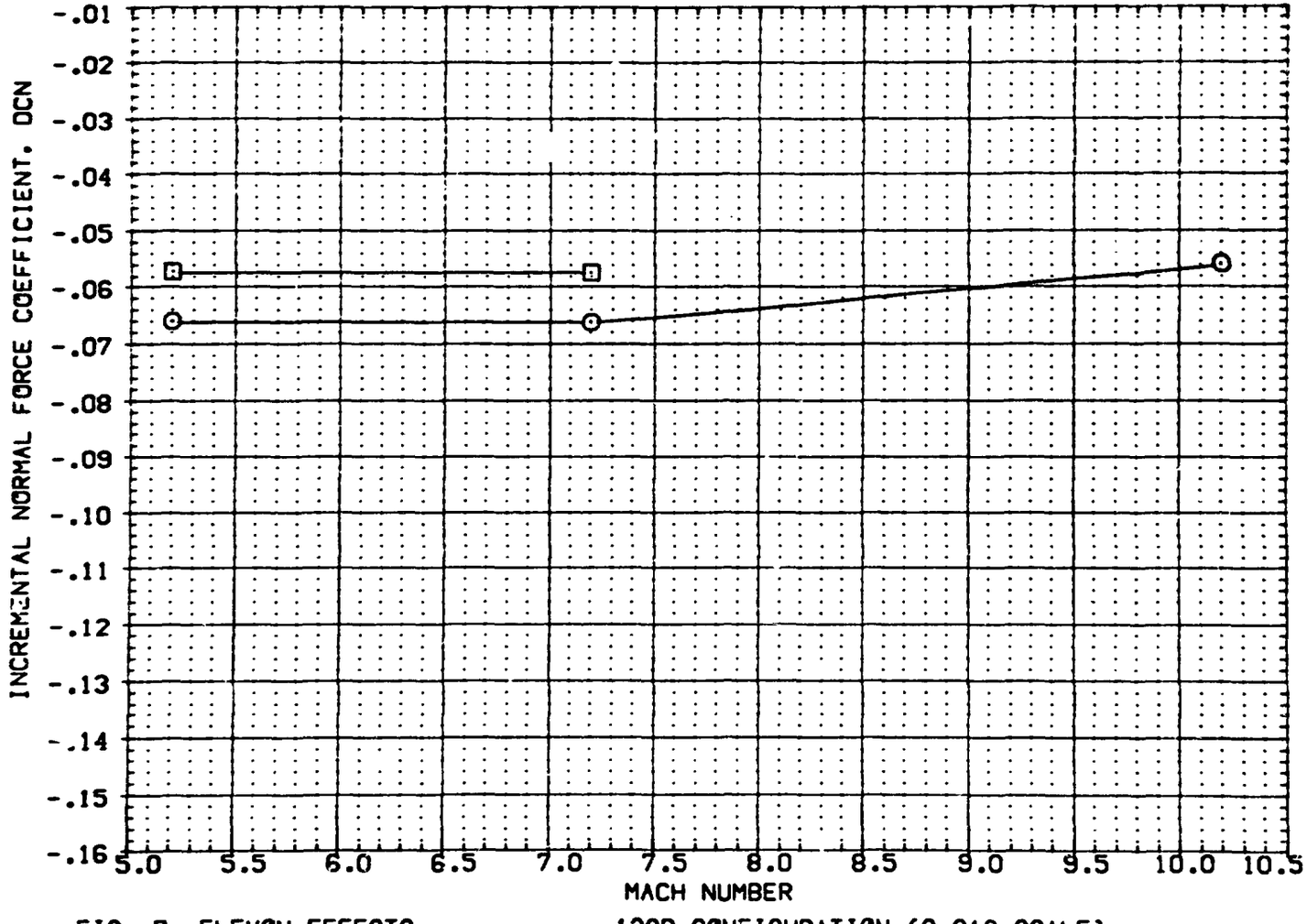


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(J86018)	8	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(J86020)	8	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

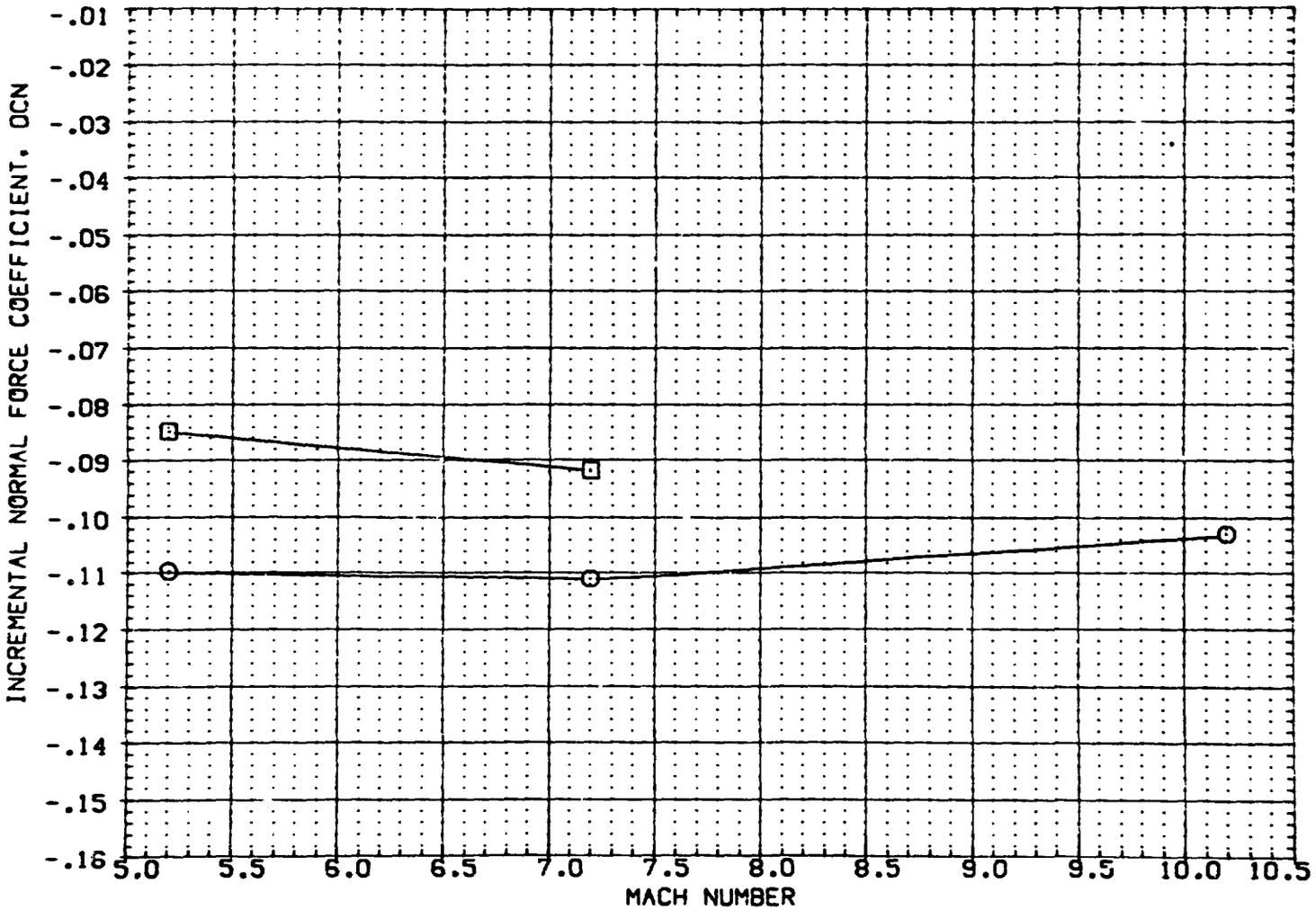


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
[U86018]	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
[U86020]	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

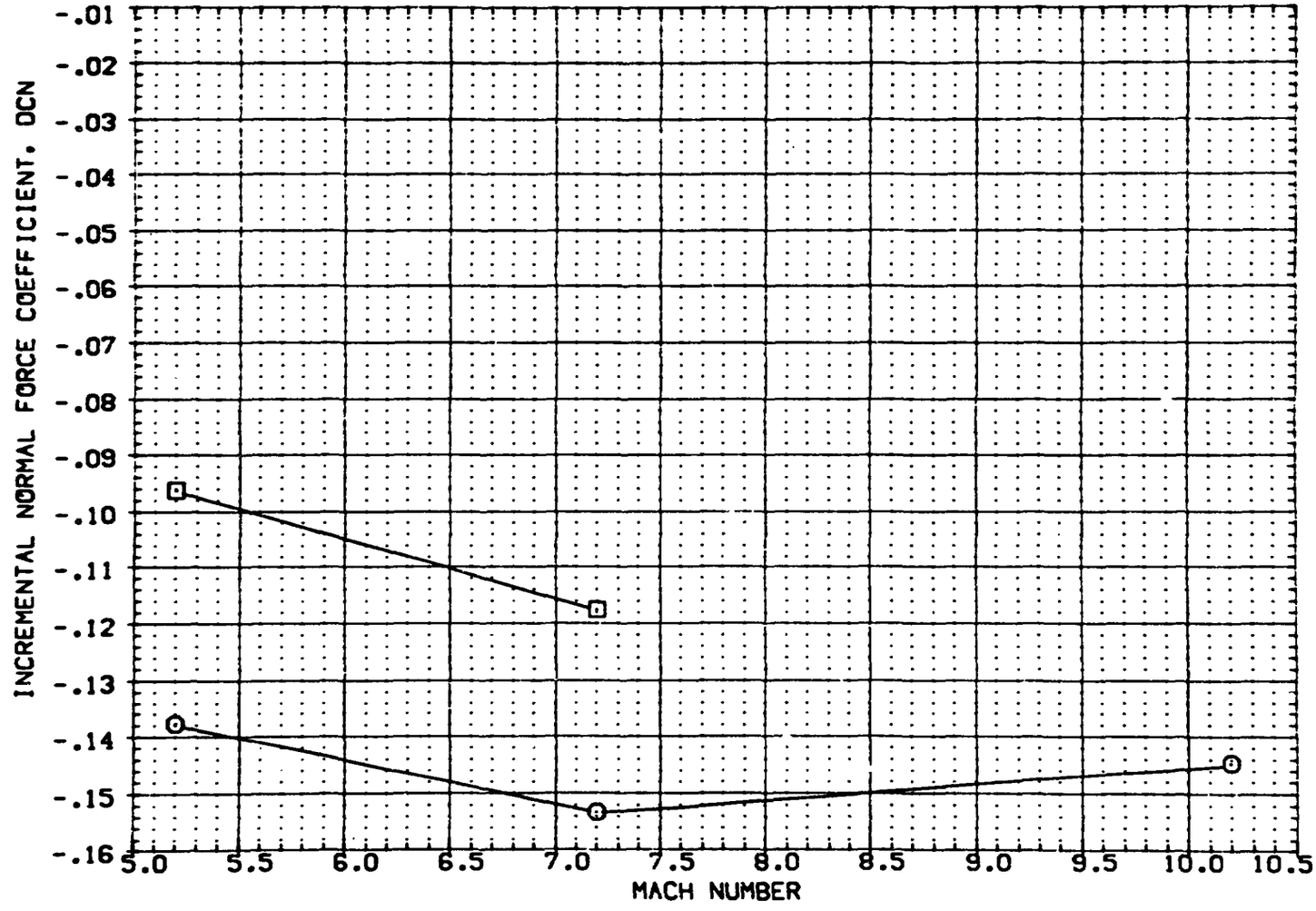


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

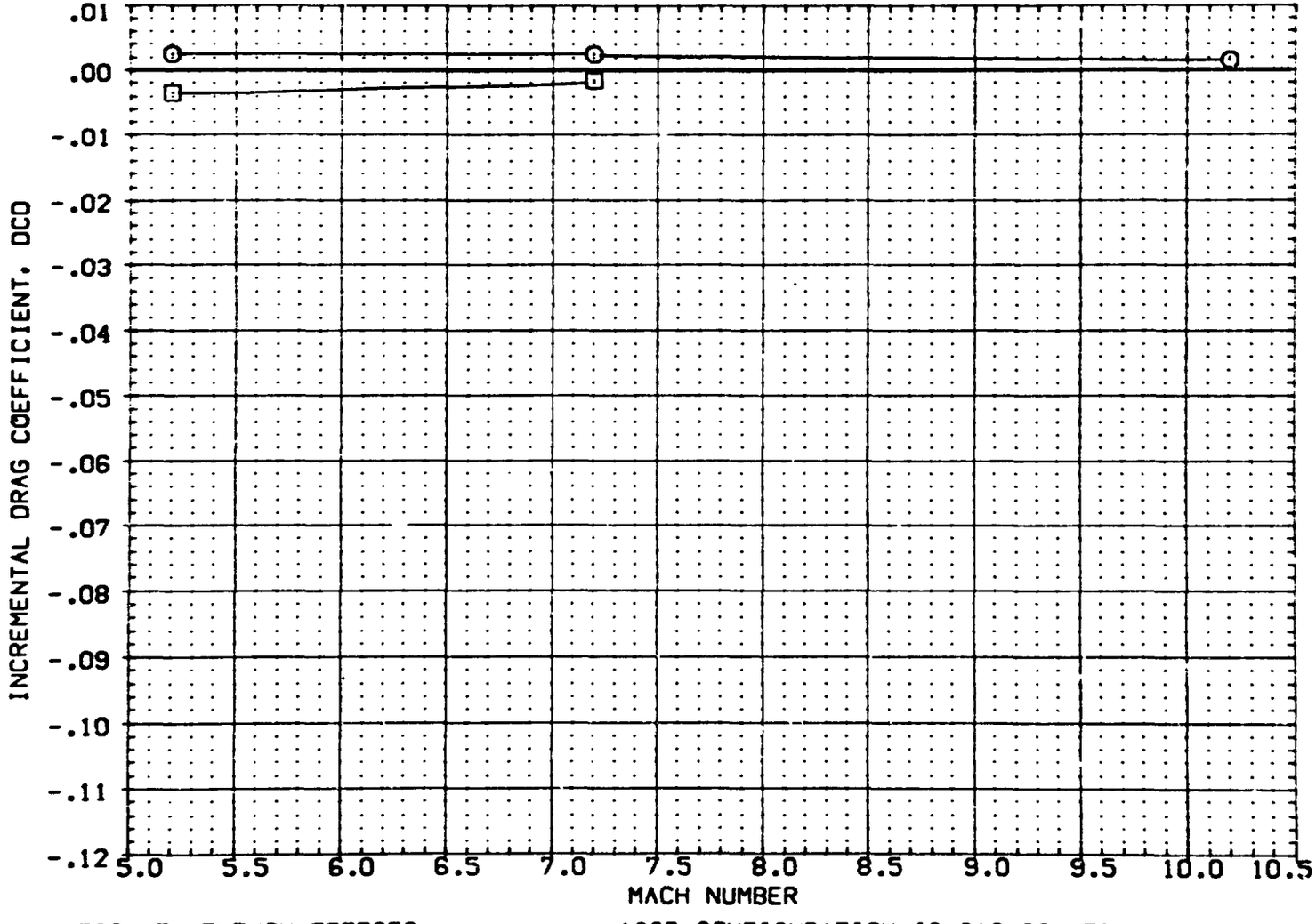


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

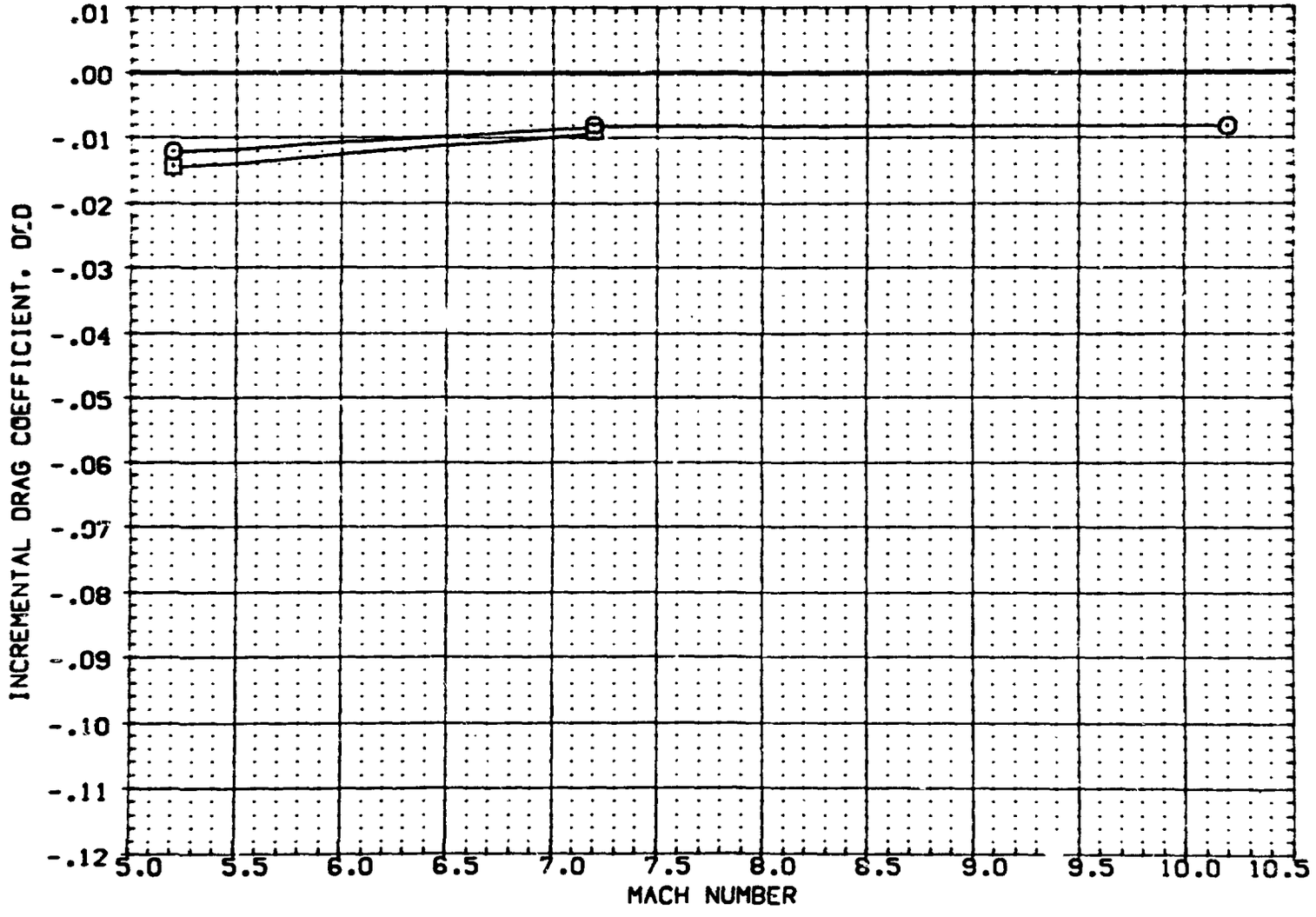


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(J86018)	8	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(J86020)	8	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

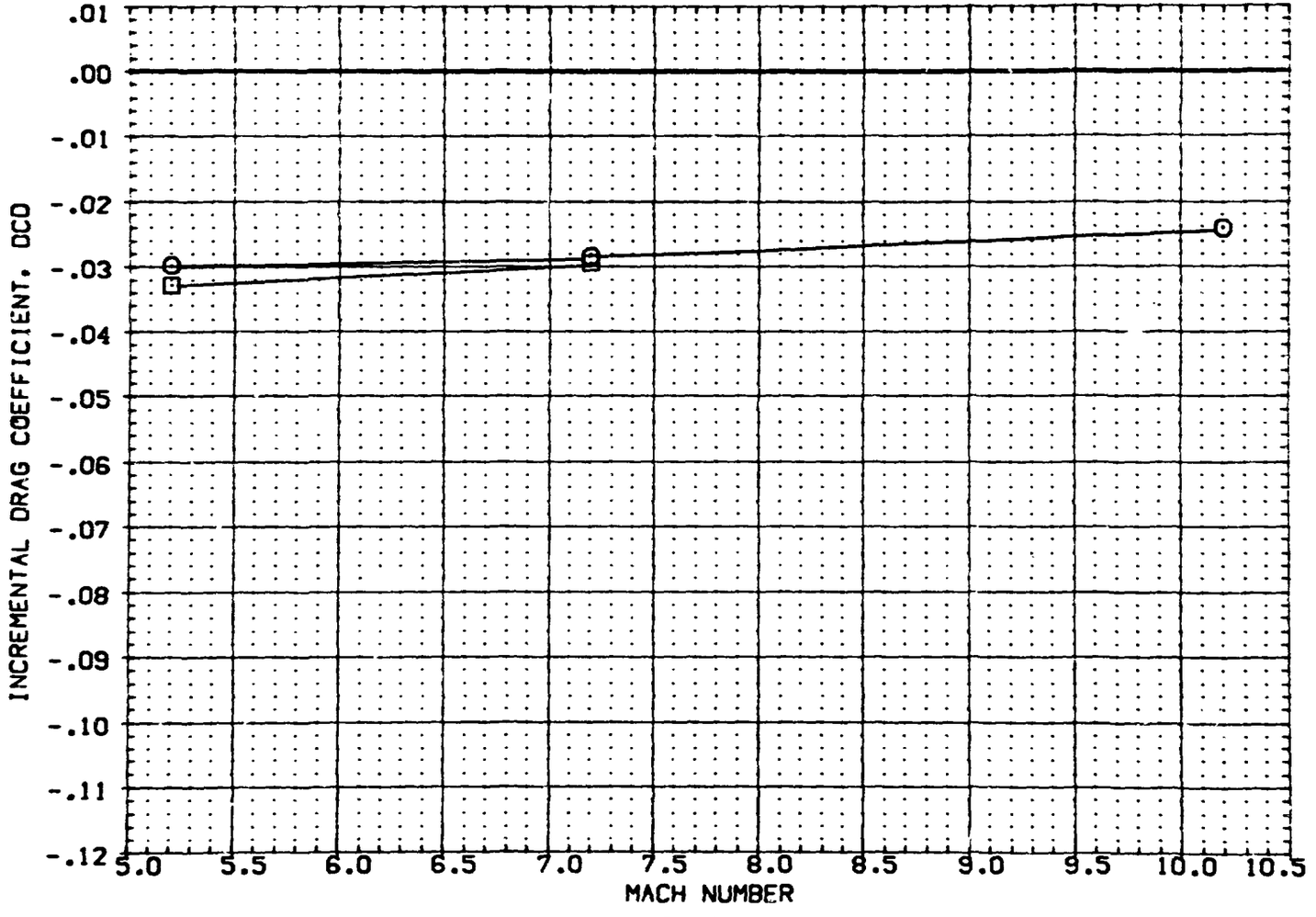


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(L86018)		AMES3.5-168 BA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000
(L86020)		AMES3.5-168 BA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

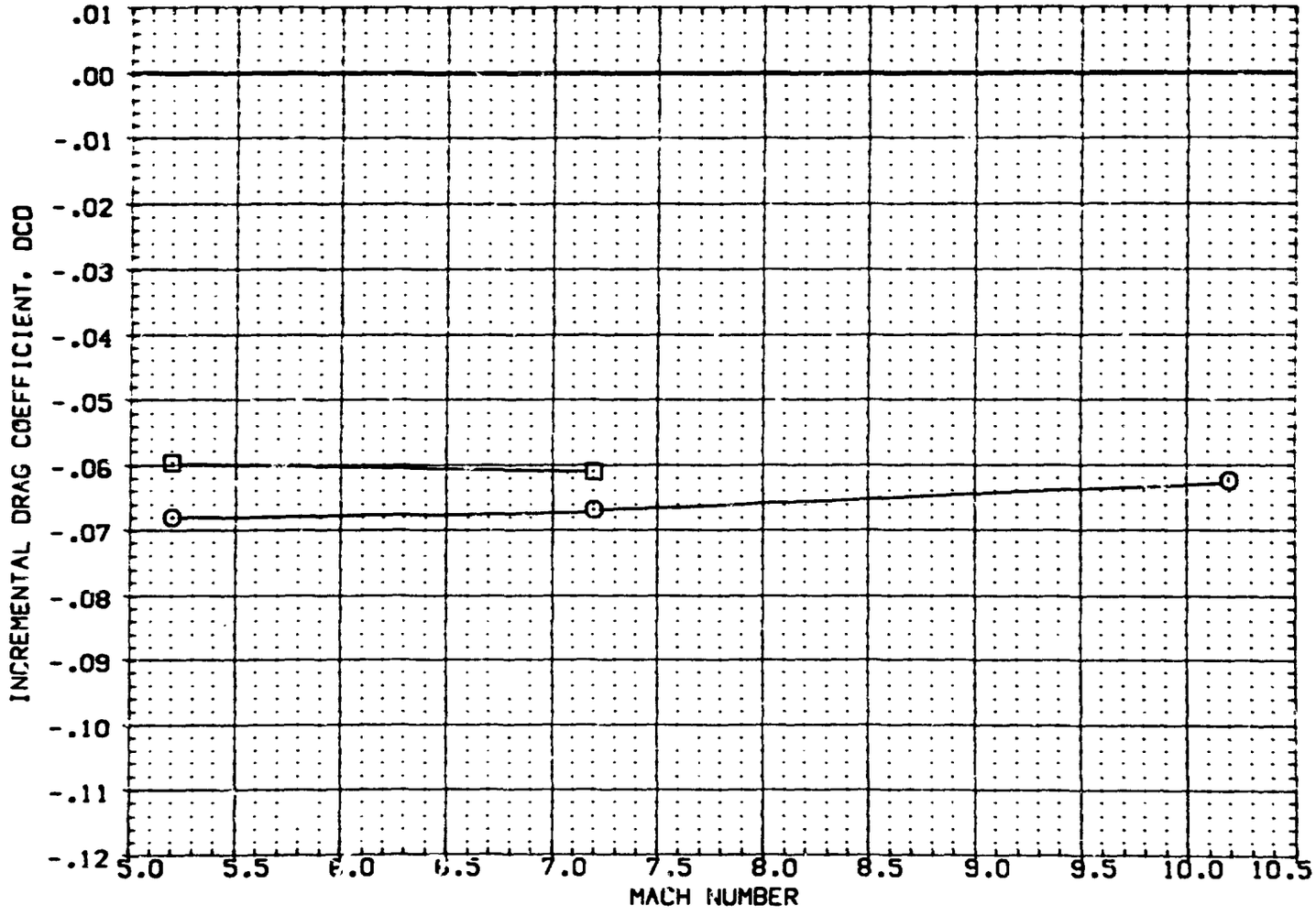


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.1800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

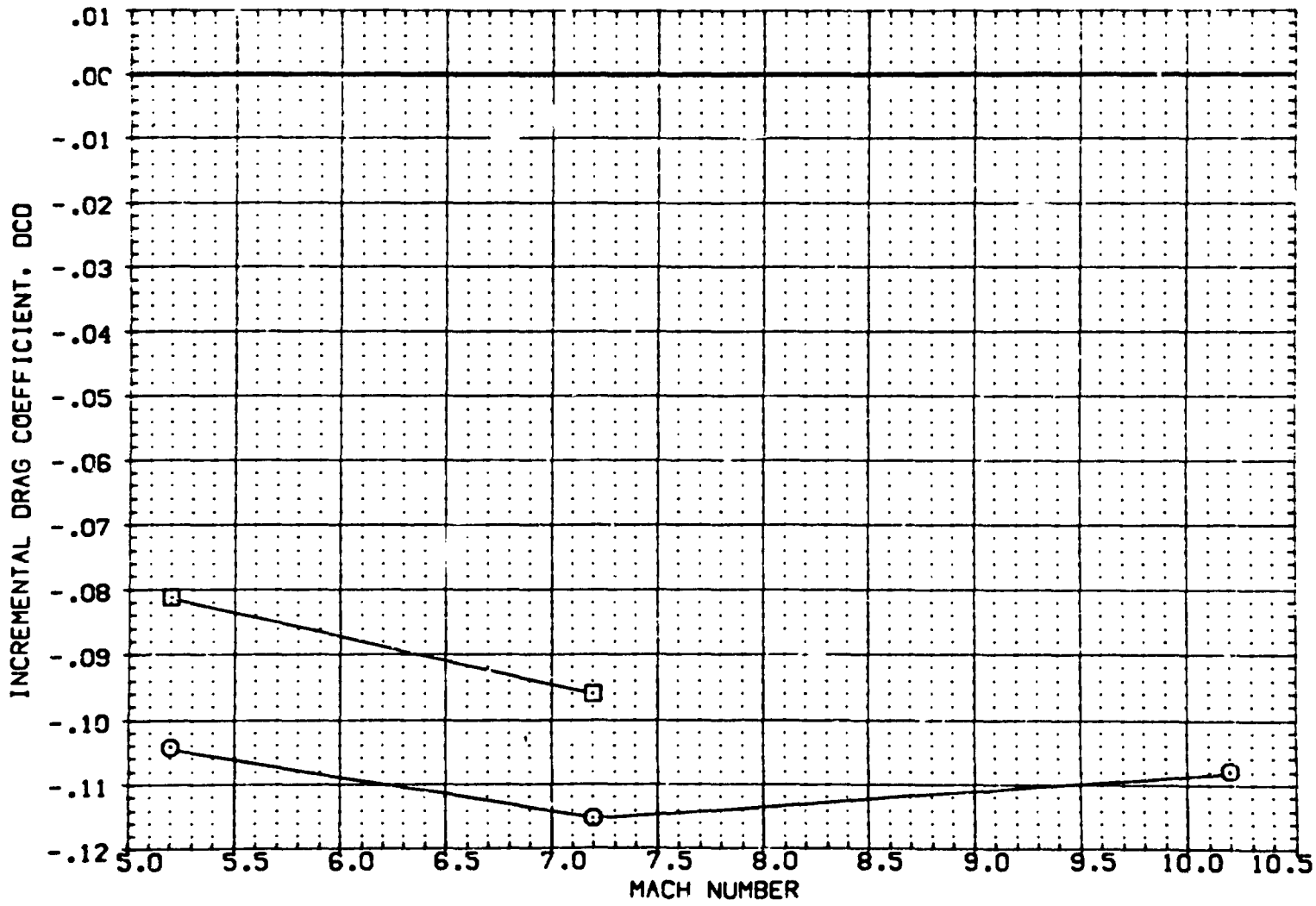


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBHK	RUDDER
(J86018)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(J86020)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

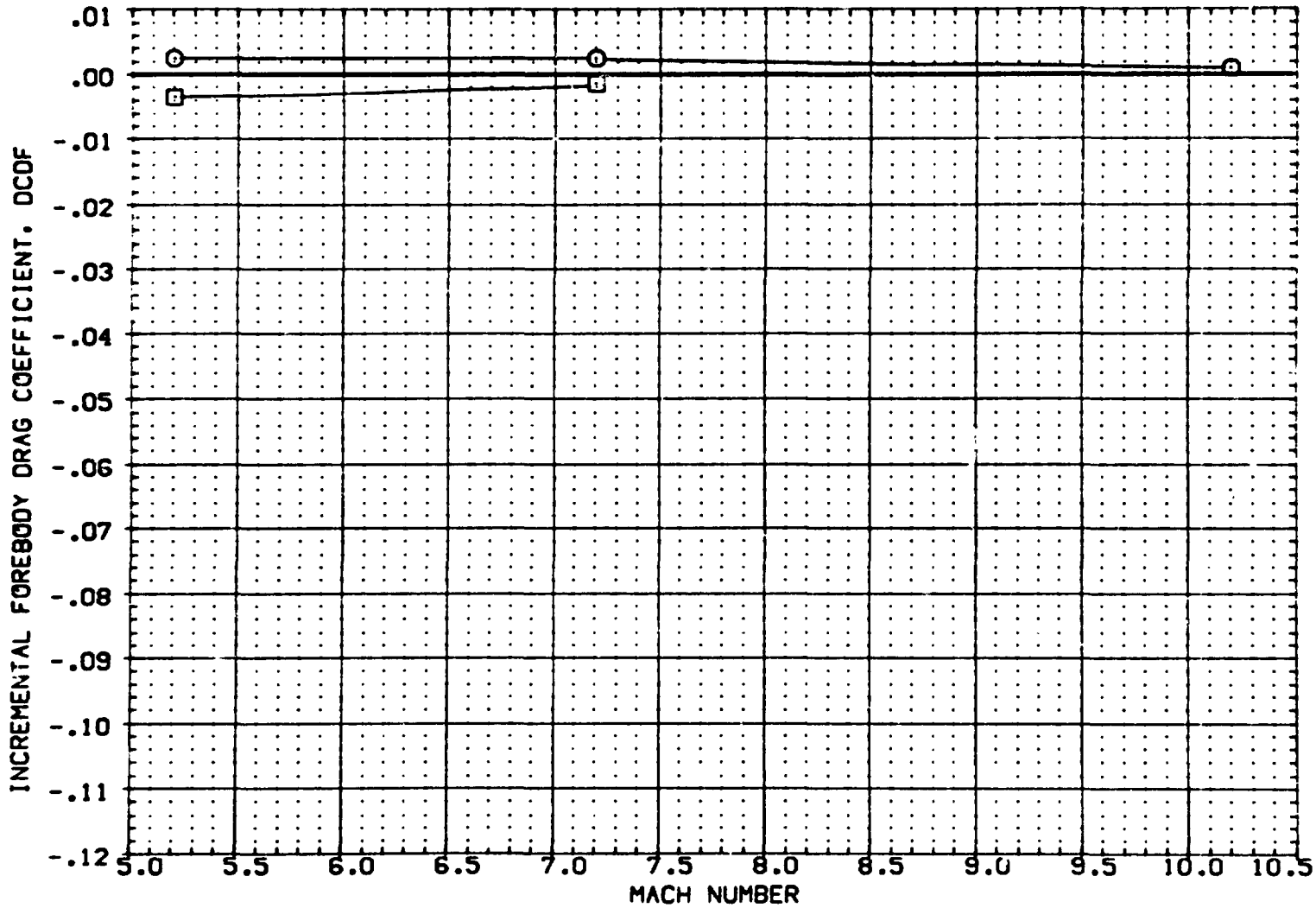


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(J860:8)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000		55.000	.000
(J86020)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

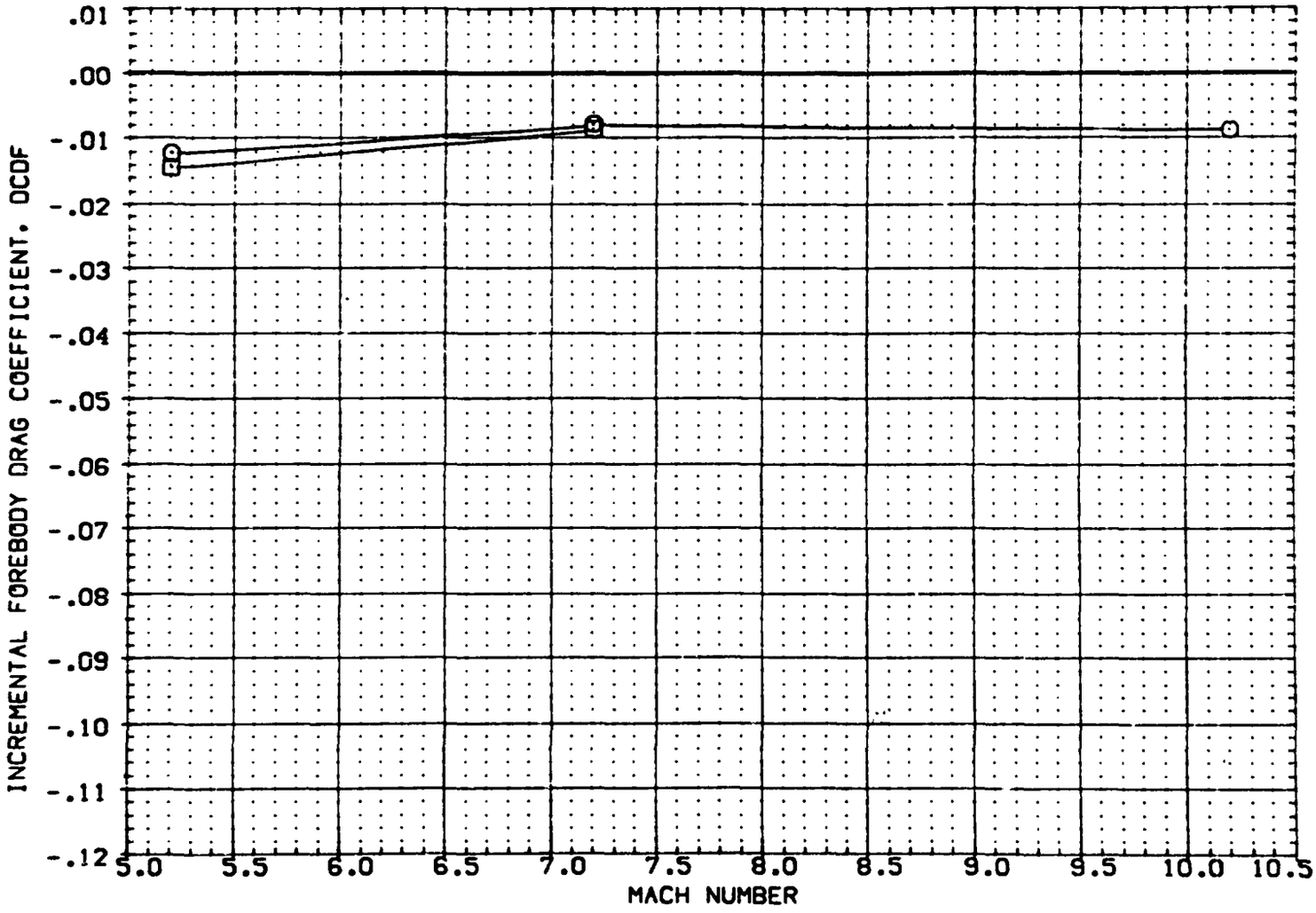


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE),
(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(U86018)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000
(U86020)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

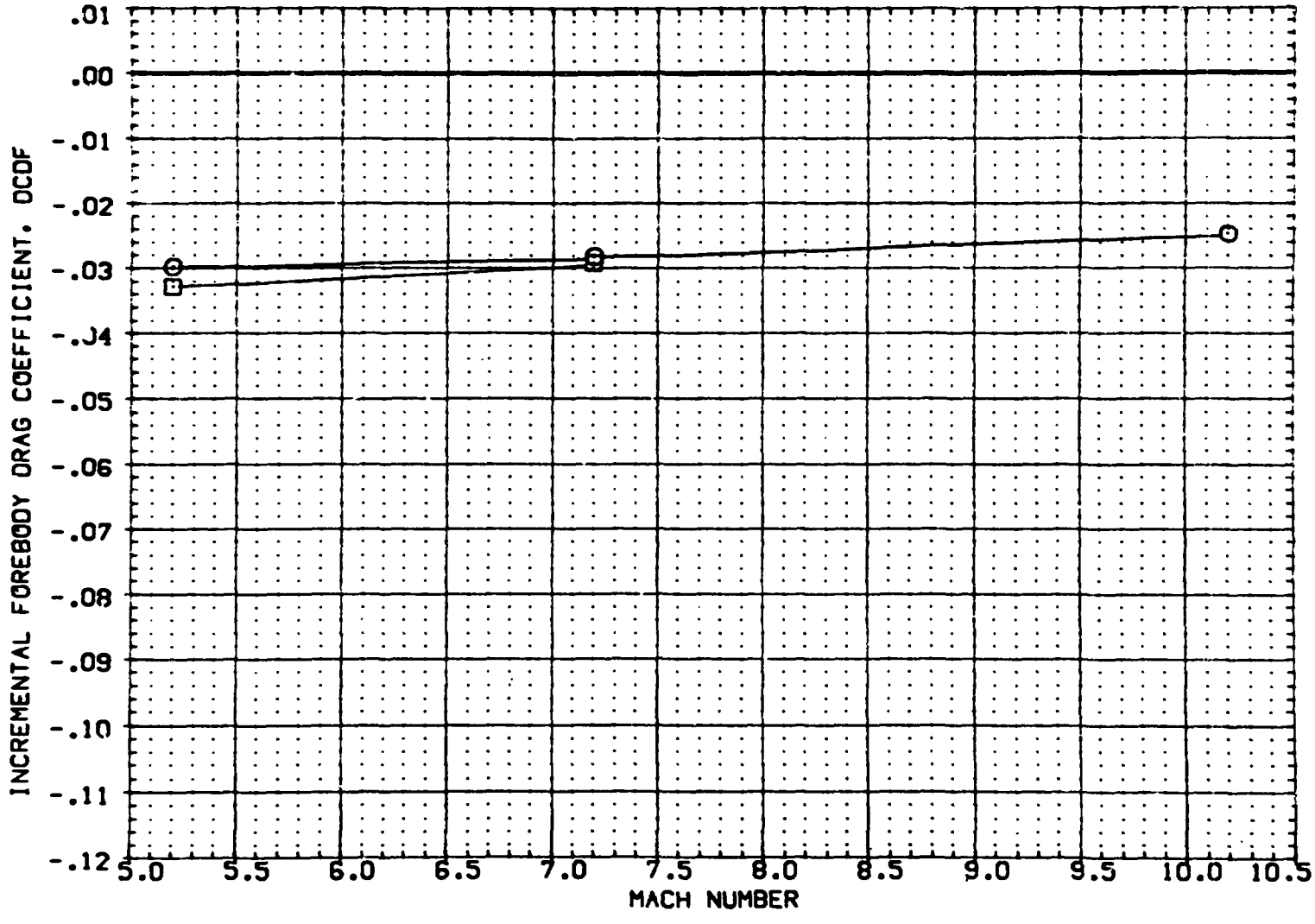


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
[.86018]	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
[.86020]	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

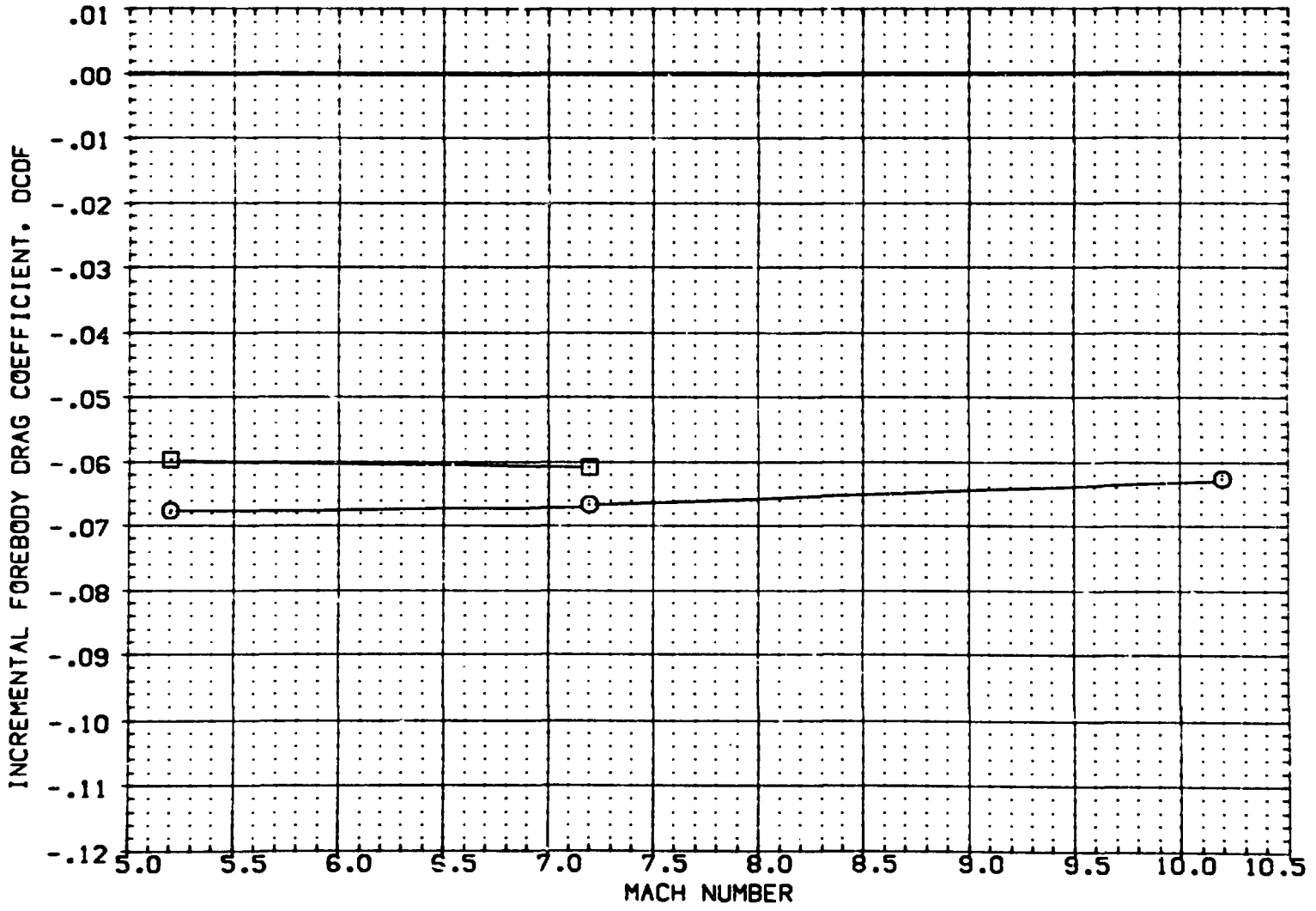


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000
(U86320)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

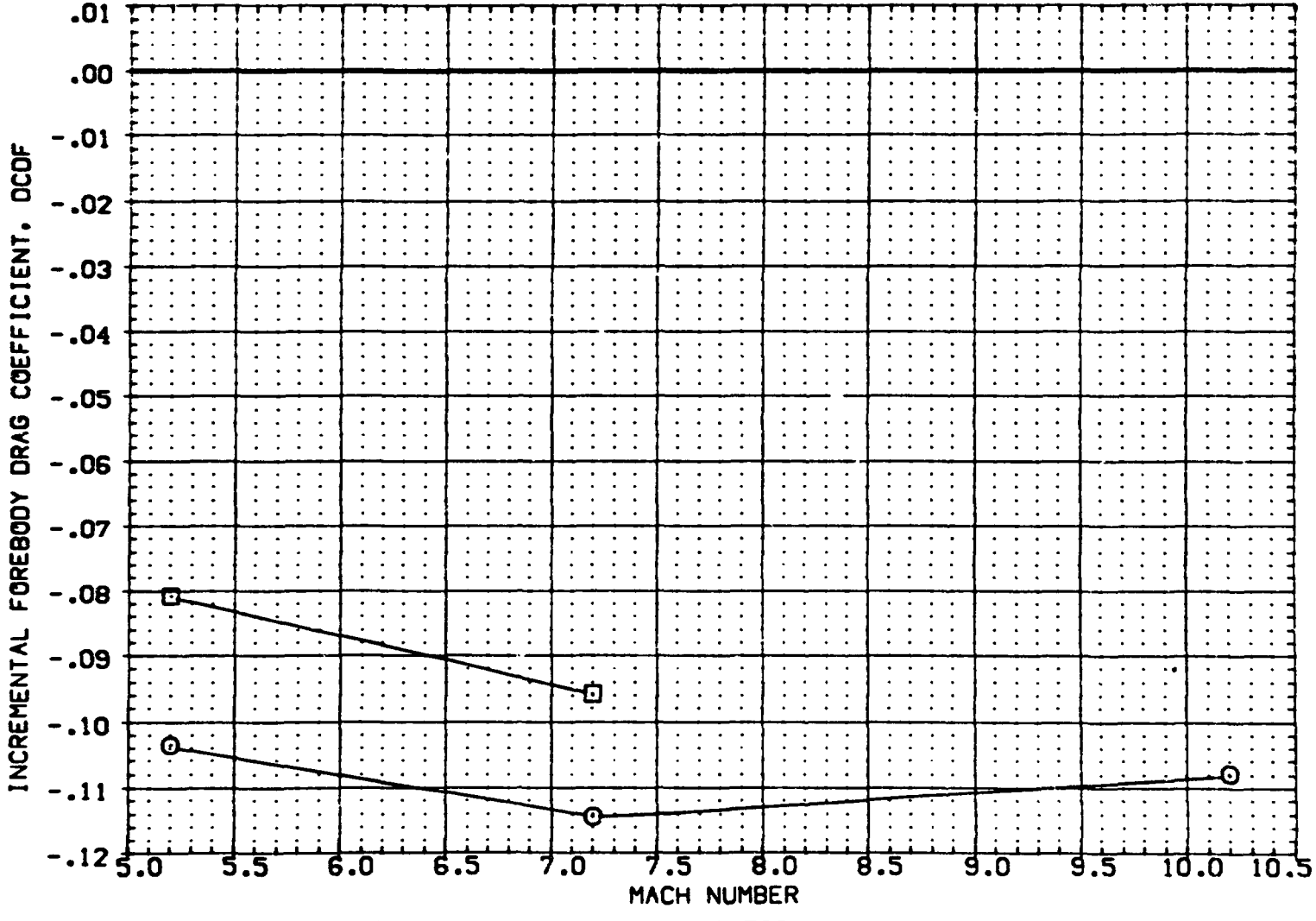


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

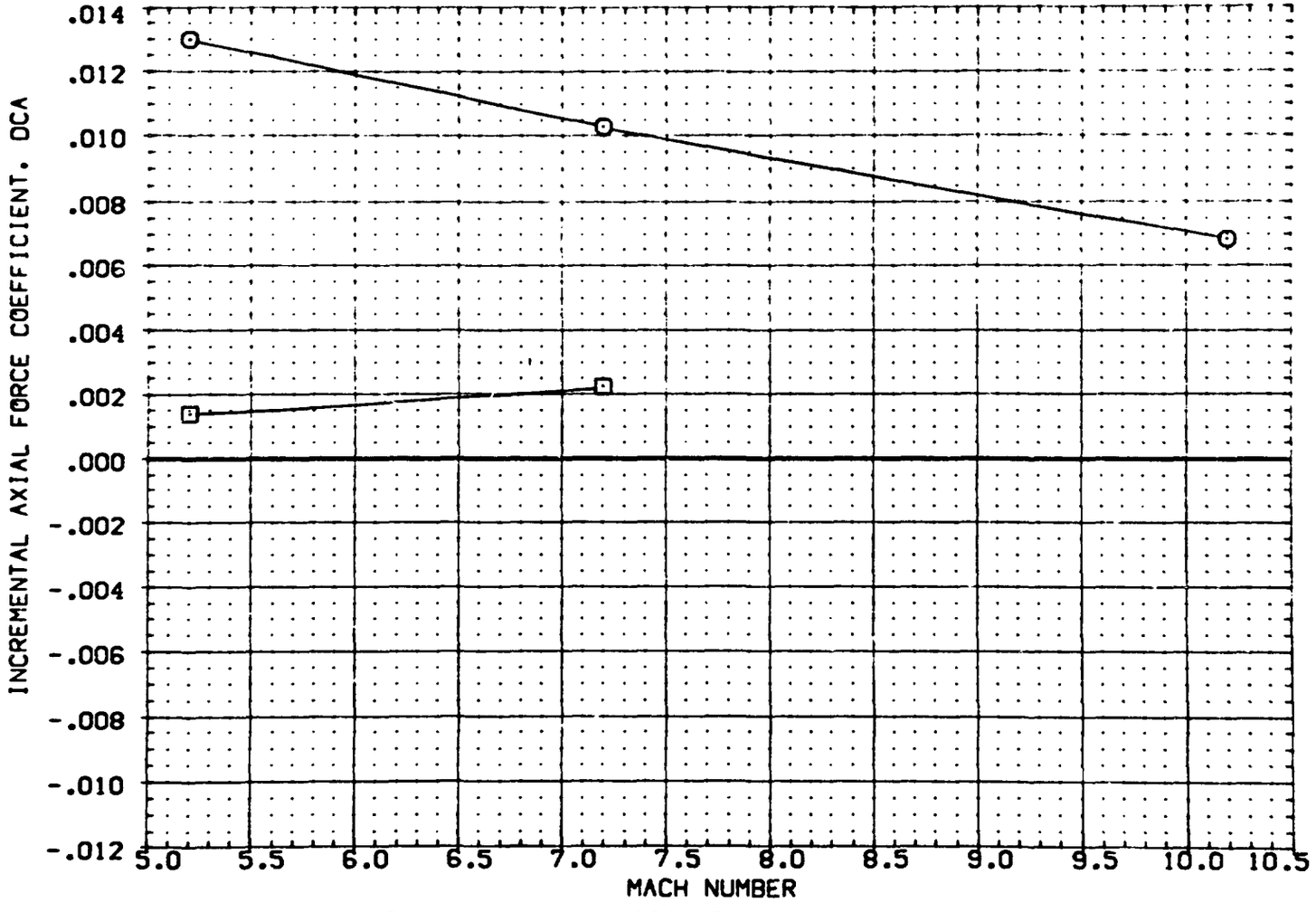


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

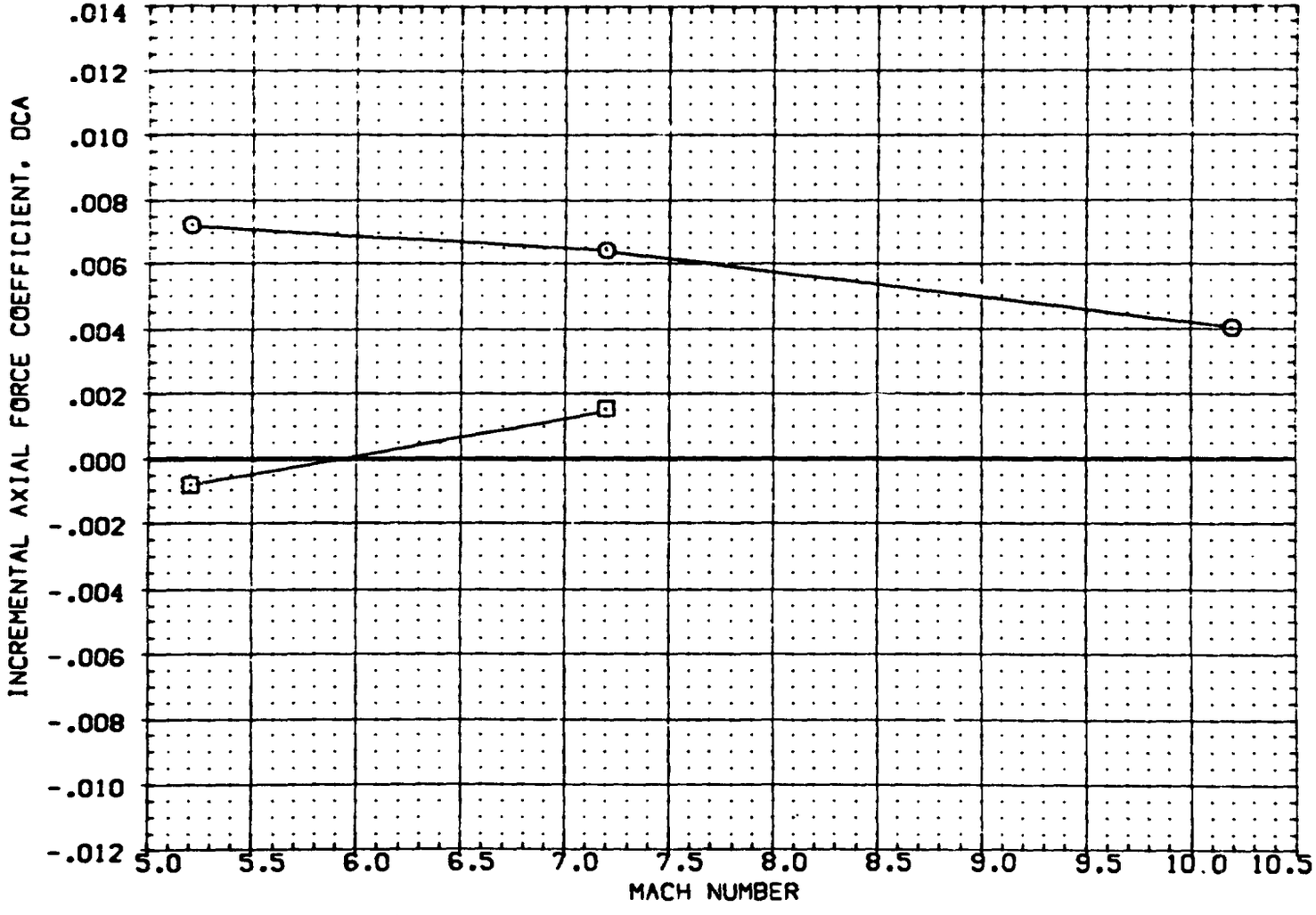


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

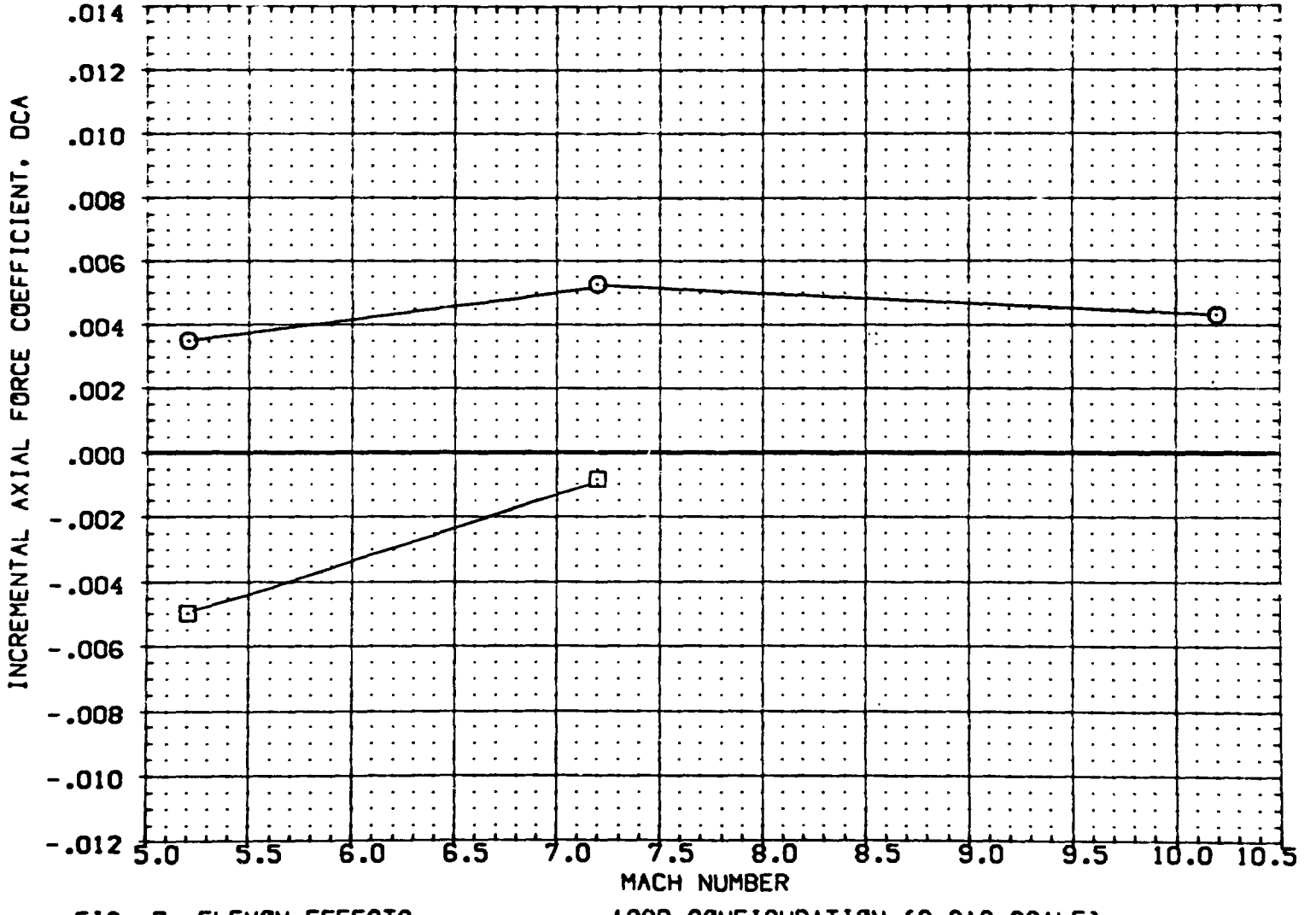


FIG. 7 ELEVØN EFFECTS 139B CØNFIGURATIØN (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
[U86018]	8	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
[U86020]	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

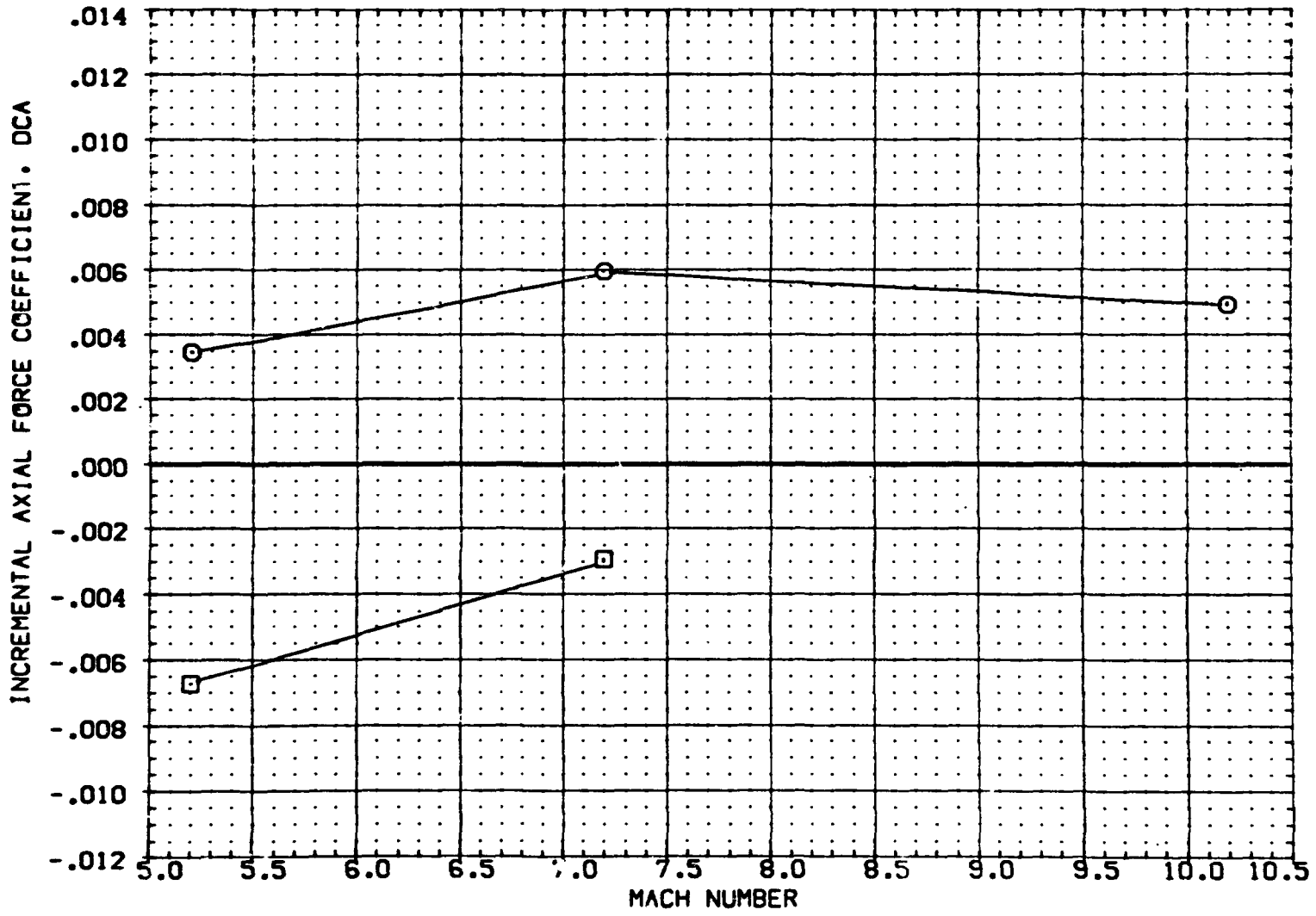


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOERK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

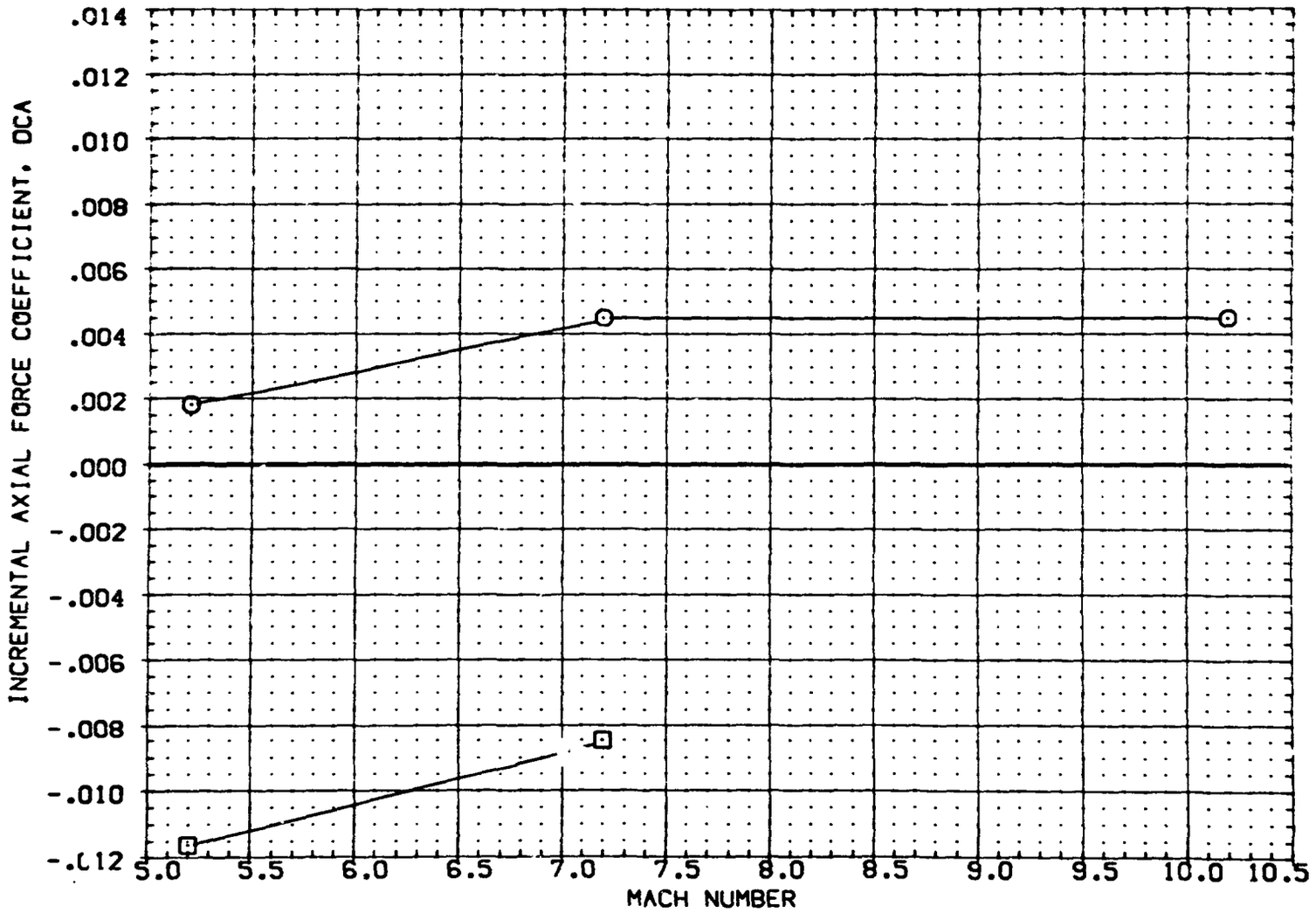


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER
(U86018)	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2390.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

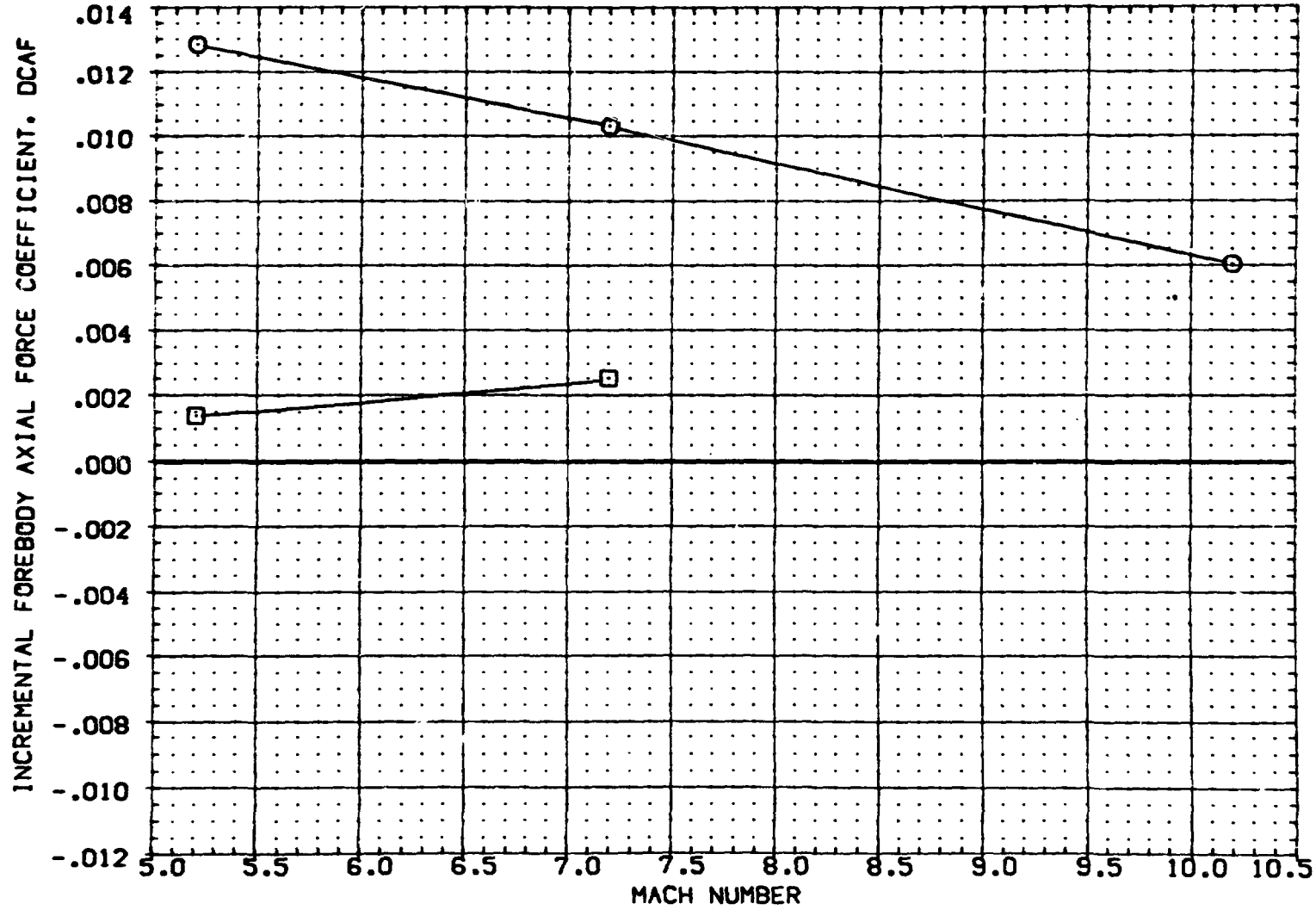


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(J86018)	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(J86020)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

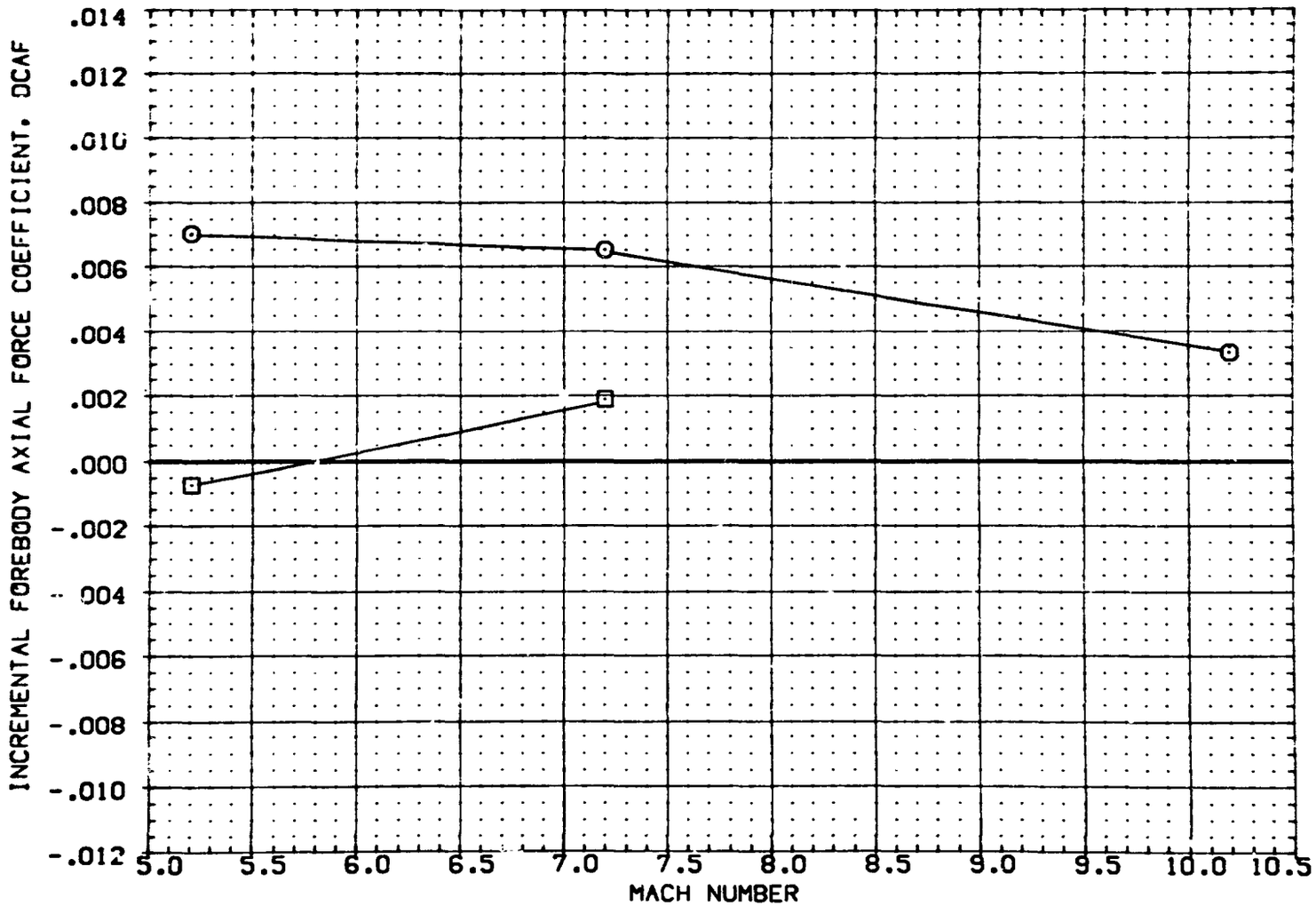


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(U86018)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

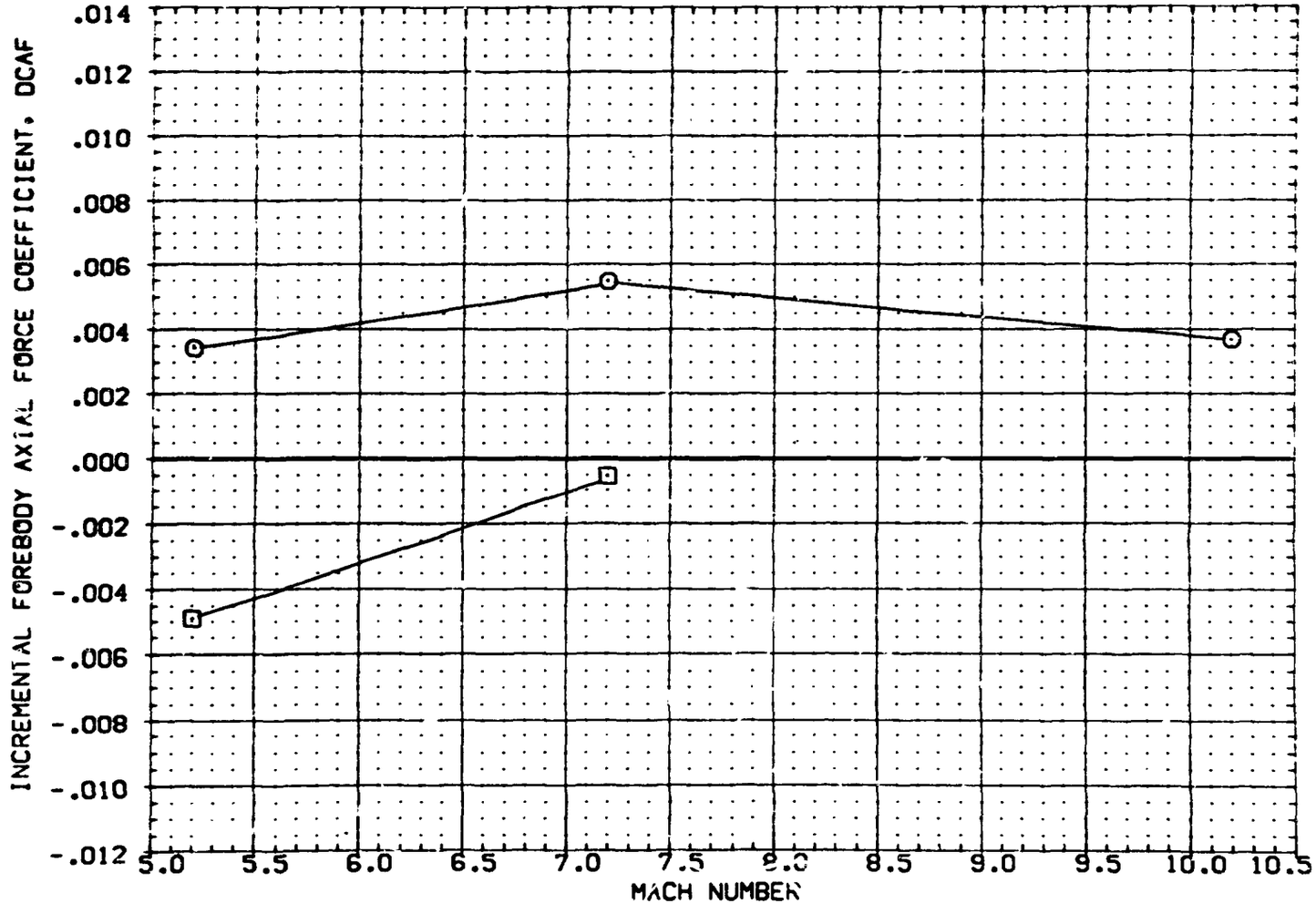


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	GE	BDFLAP	SPLTRK	RUDDER
(J86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000
(J86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

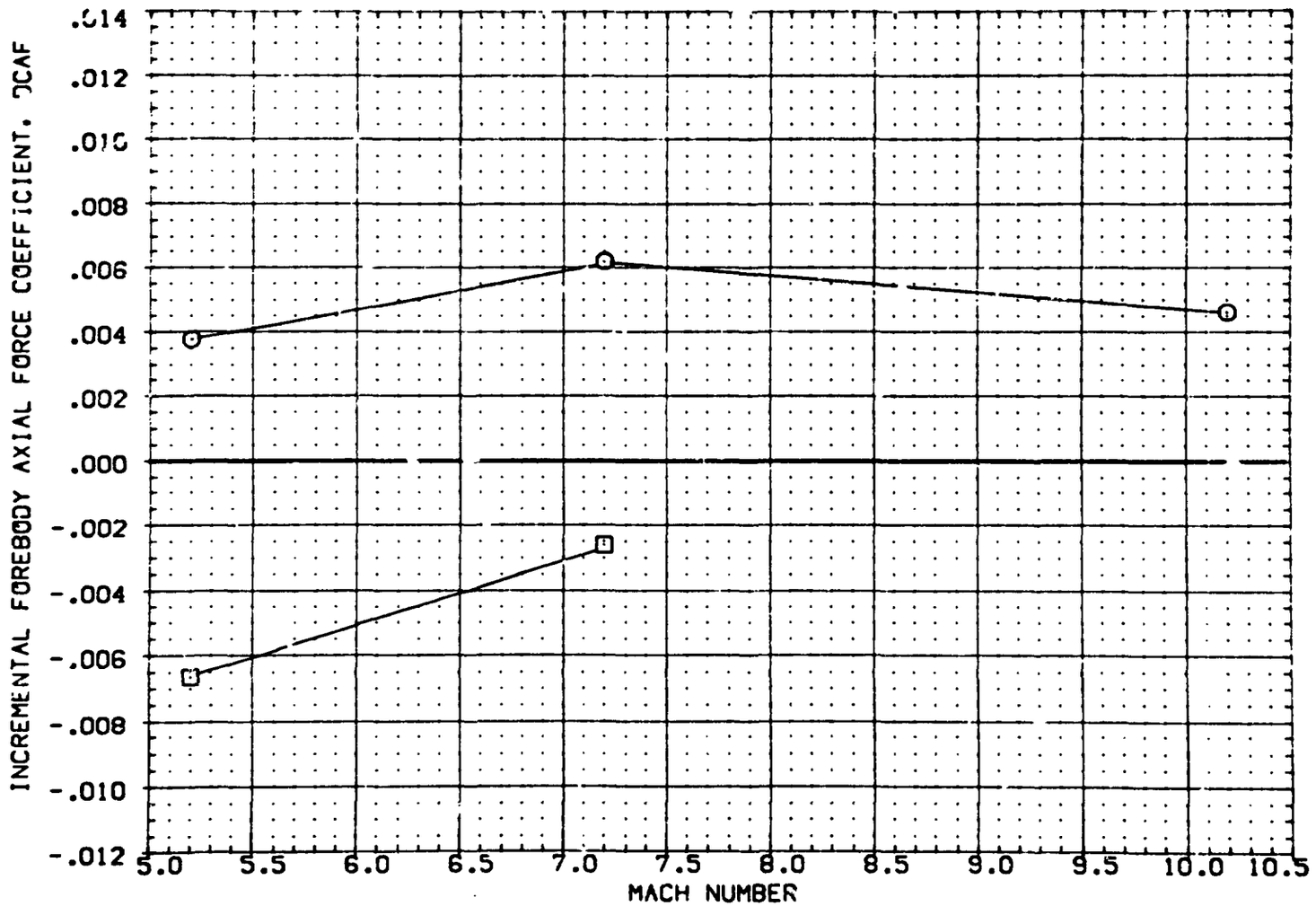


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
(J86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000
(J86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

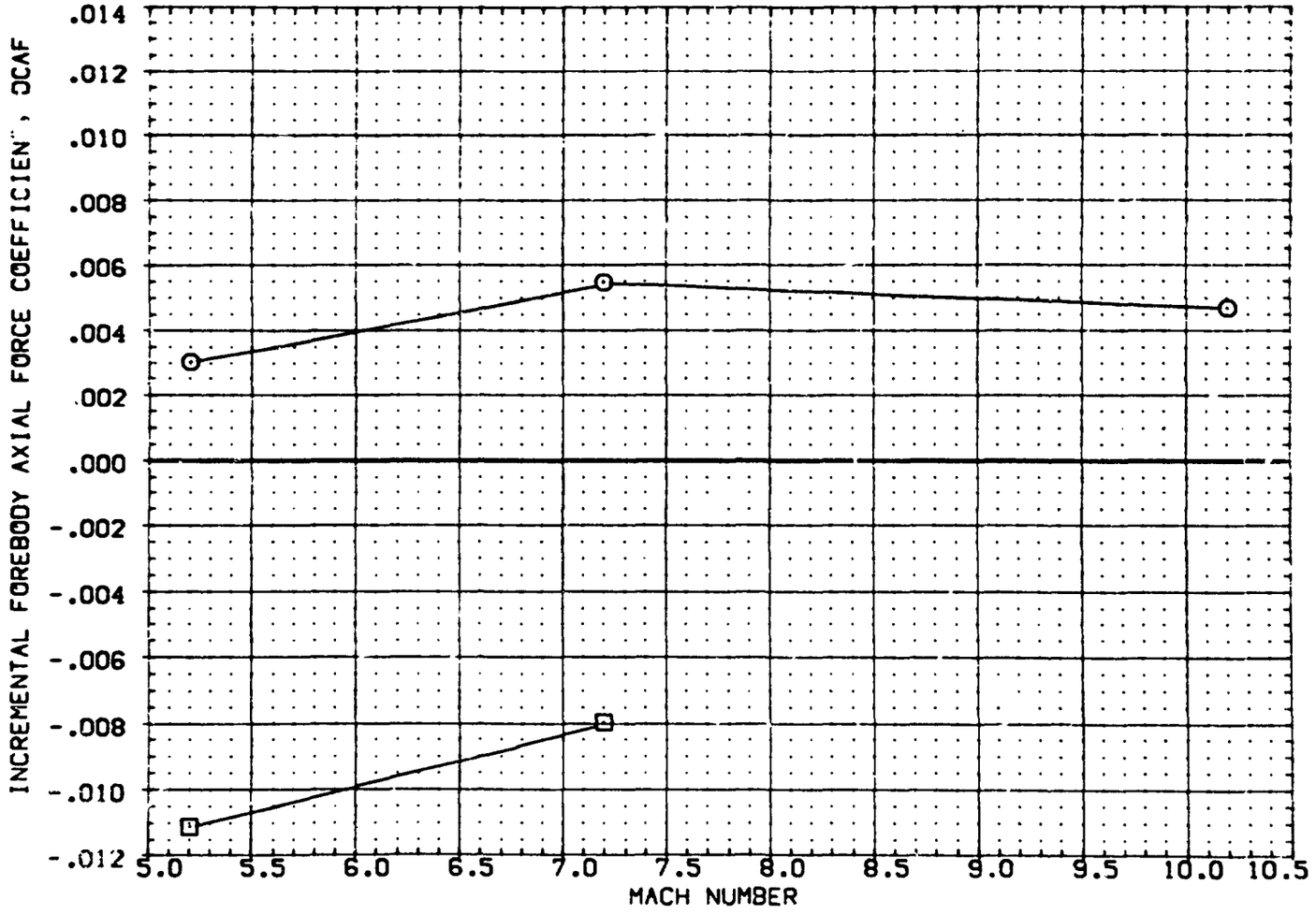


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(J86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(J86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

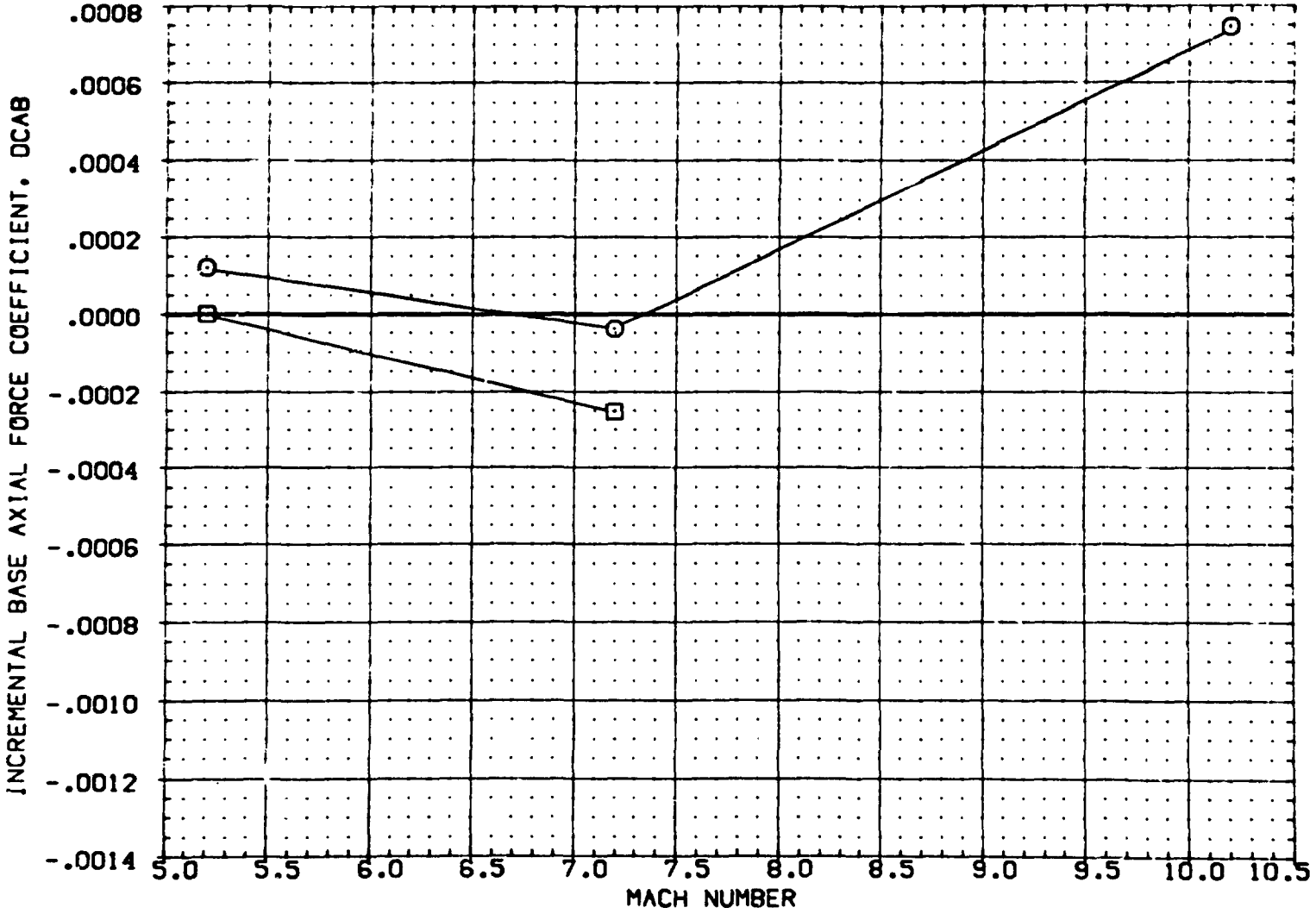


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	AMES3. -168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000
(U86020)	AMES3. -168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

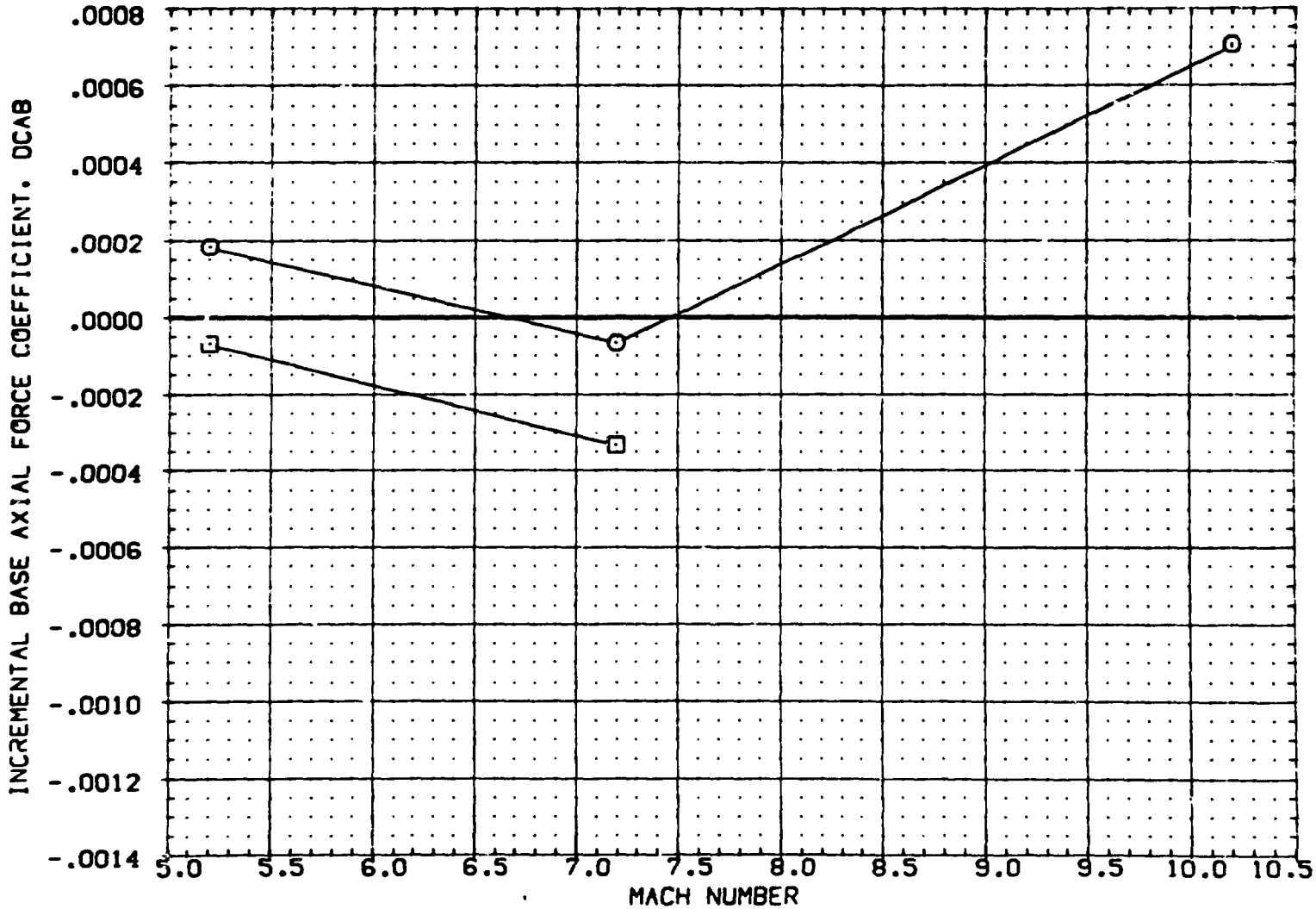


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

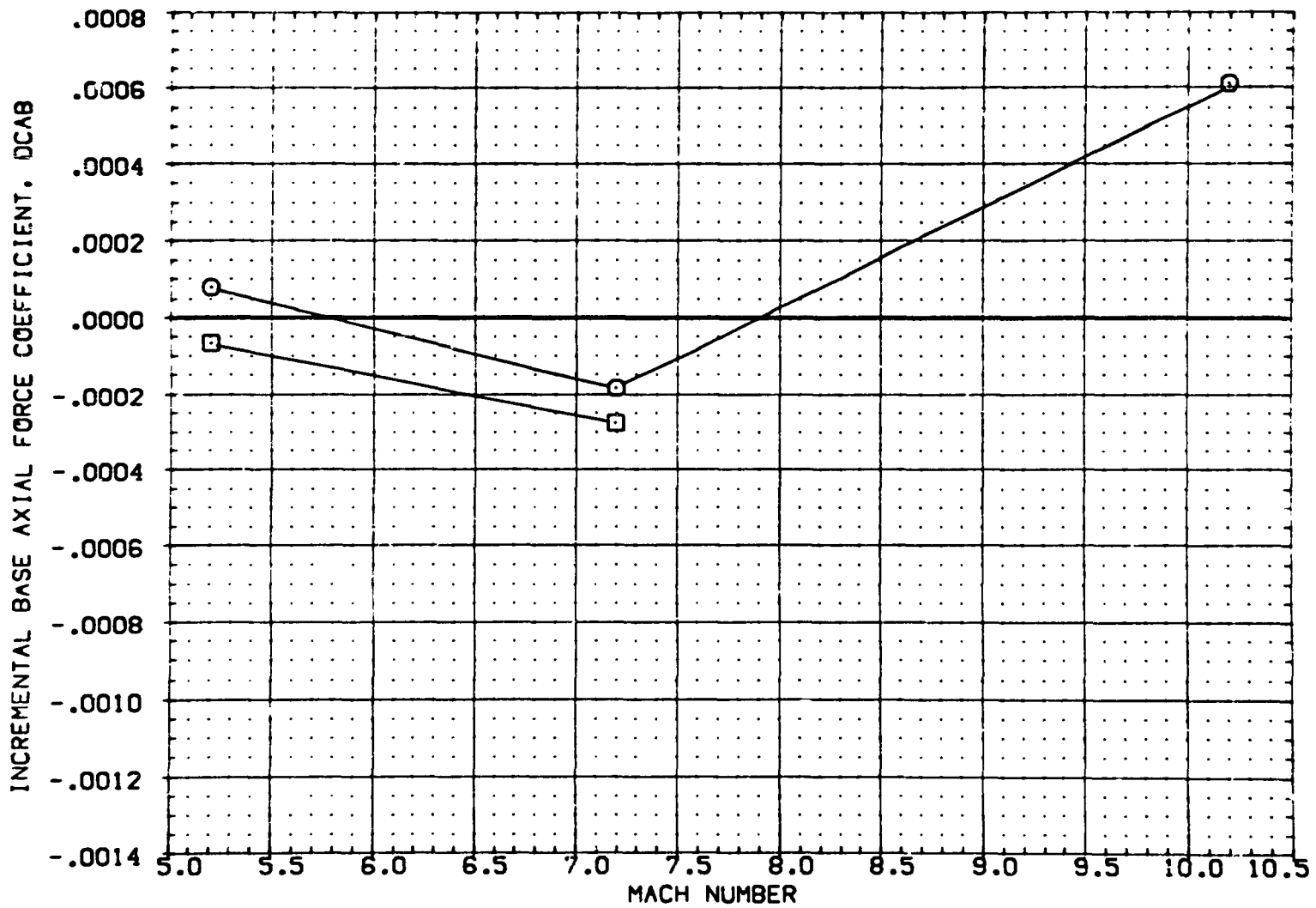


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER
[U86018]	8	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000
[U86020]	8	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2650.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

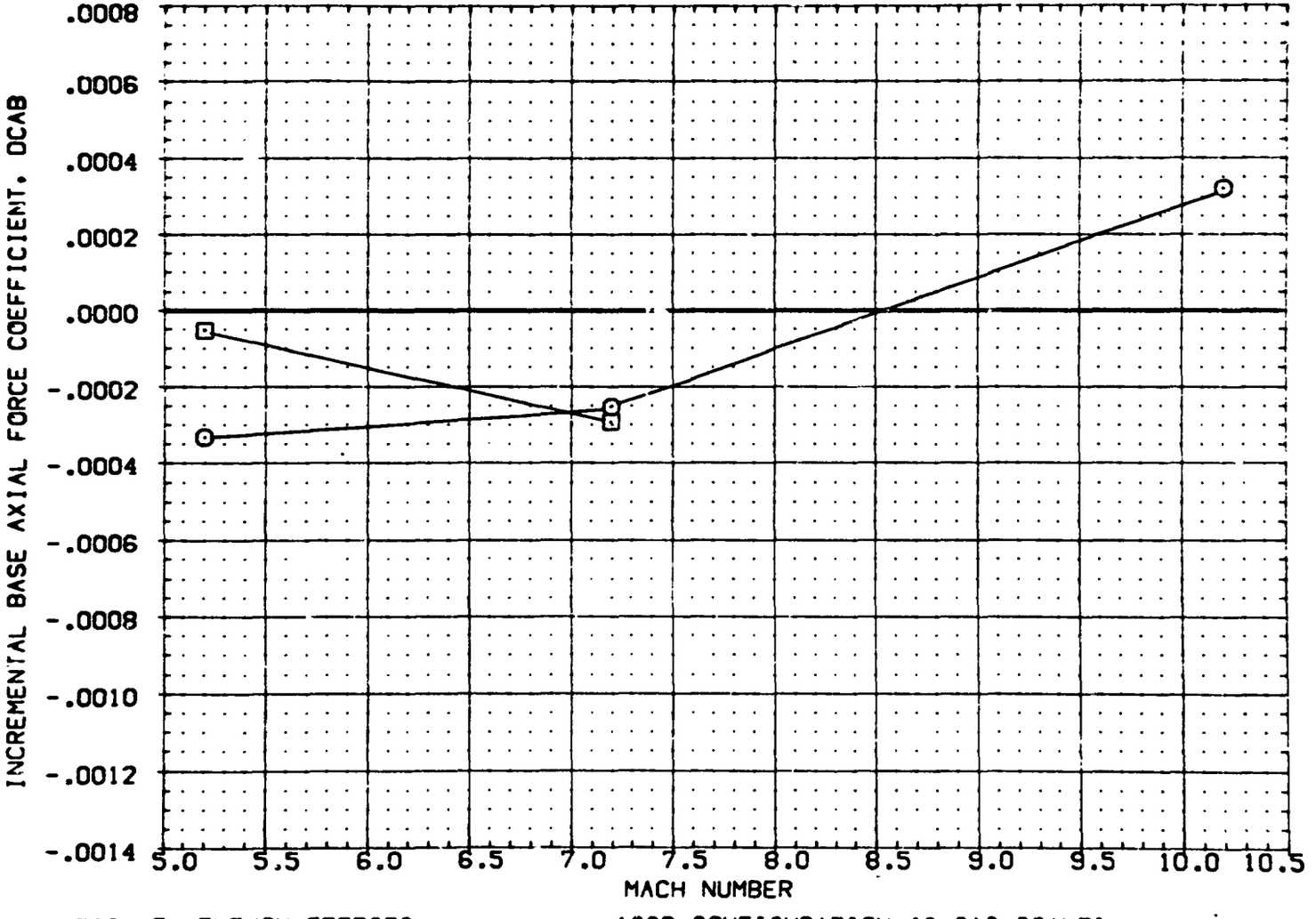


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

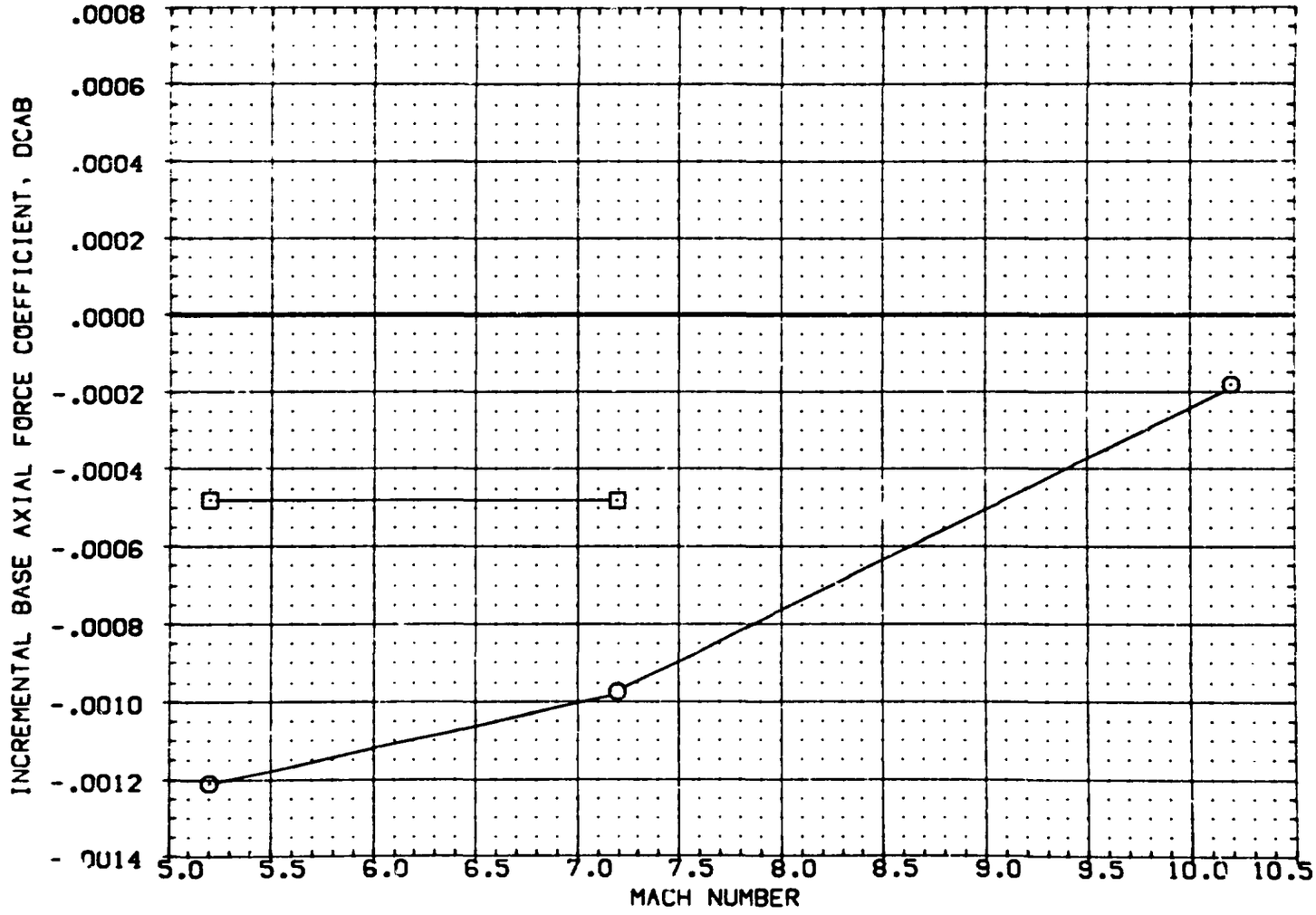


FIG. 7 ELEVON EFFECTS 1398 CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(J86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(J86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

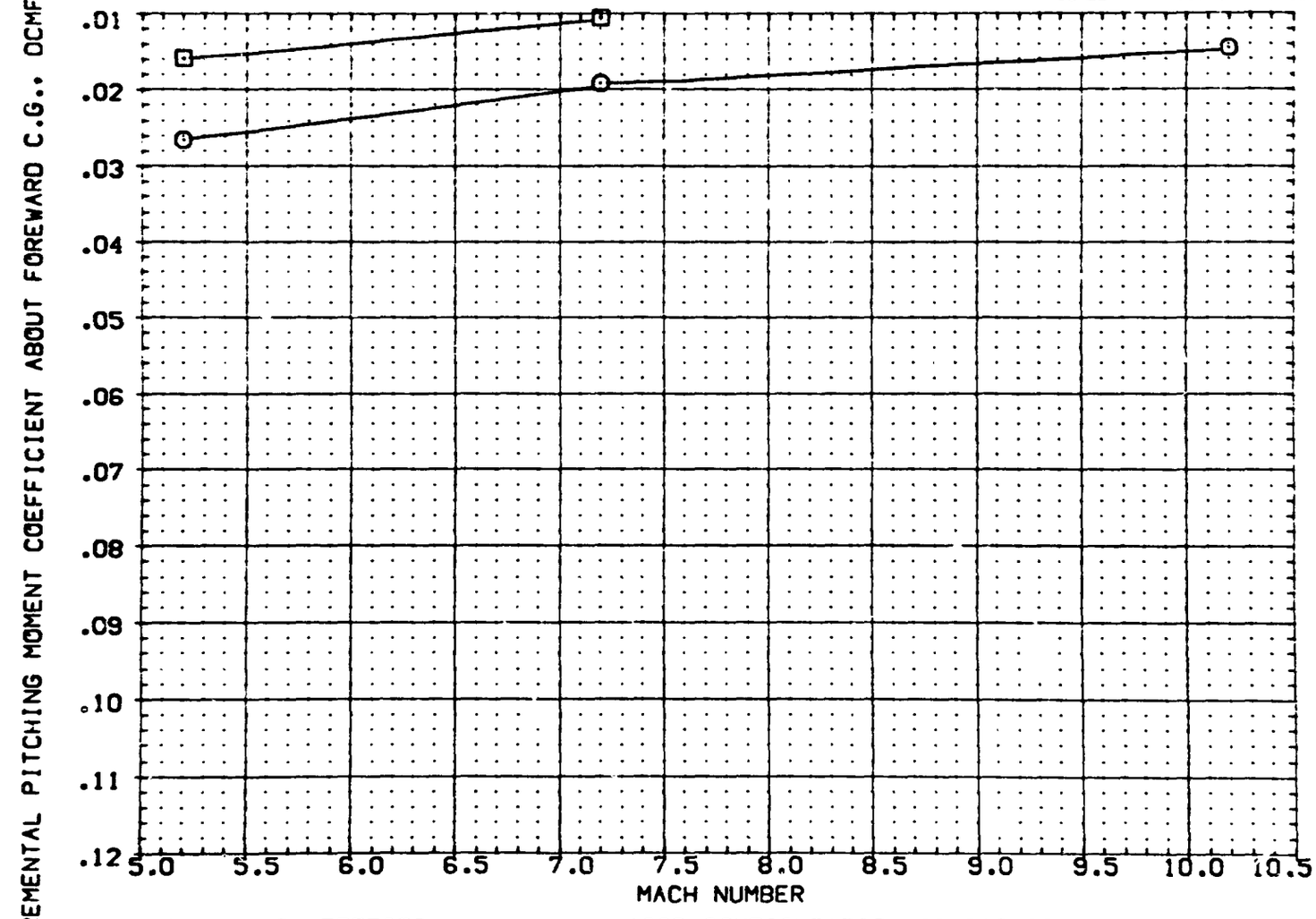


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

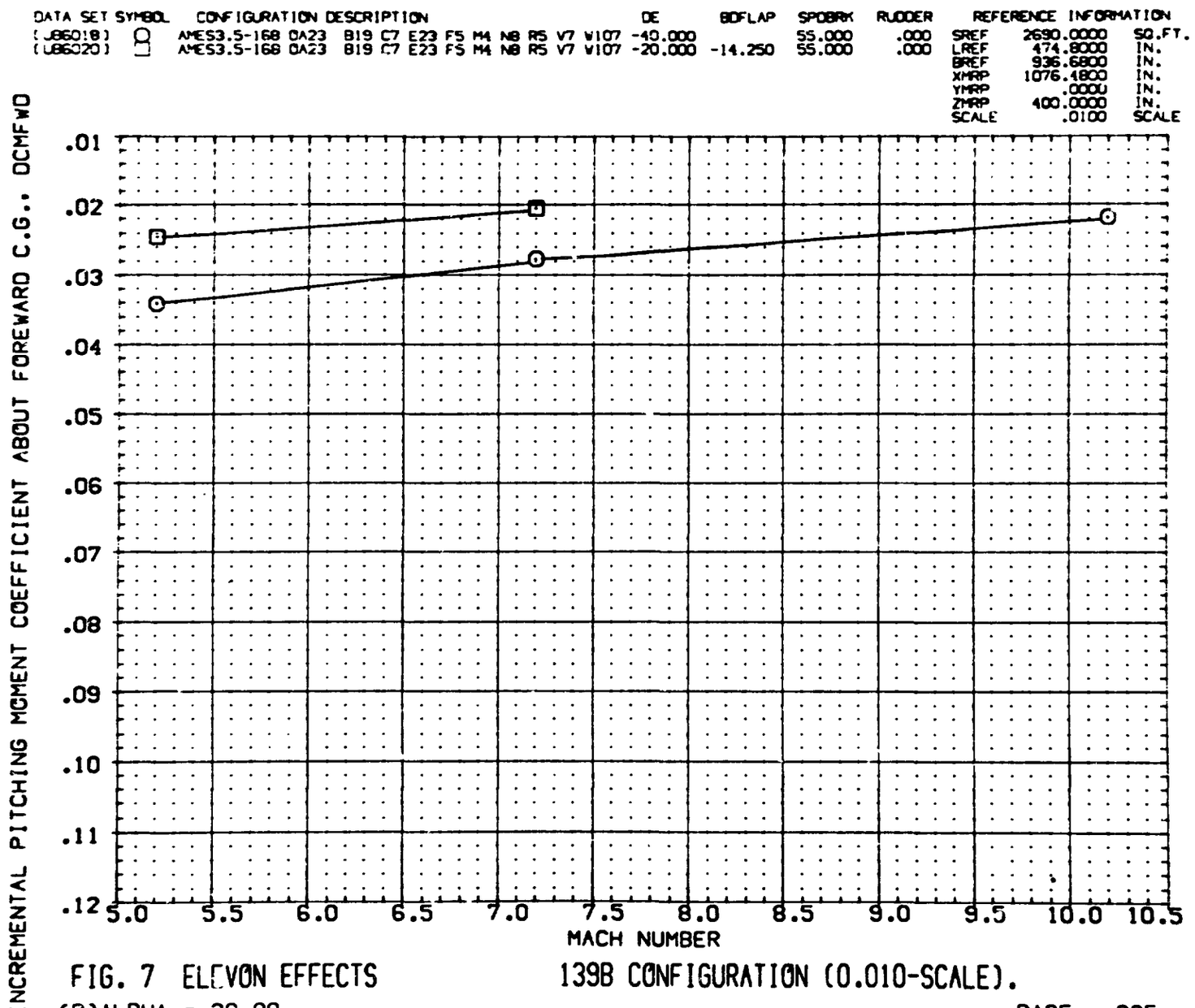


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

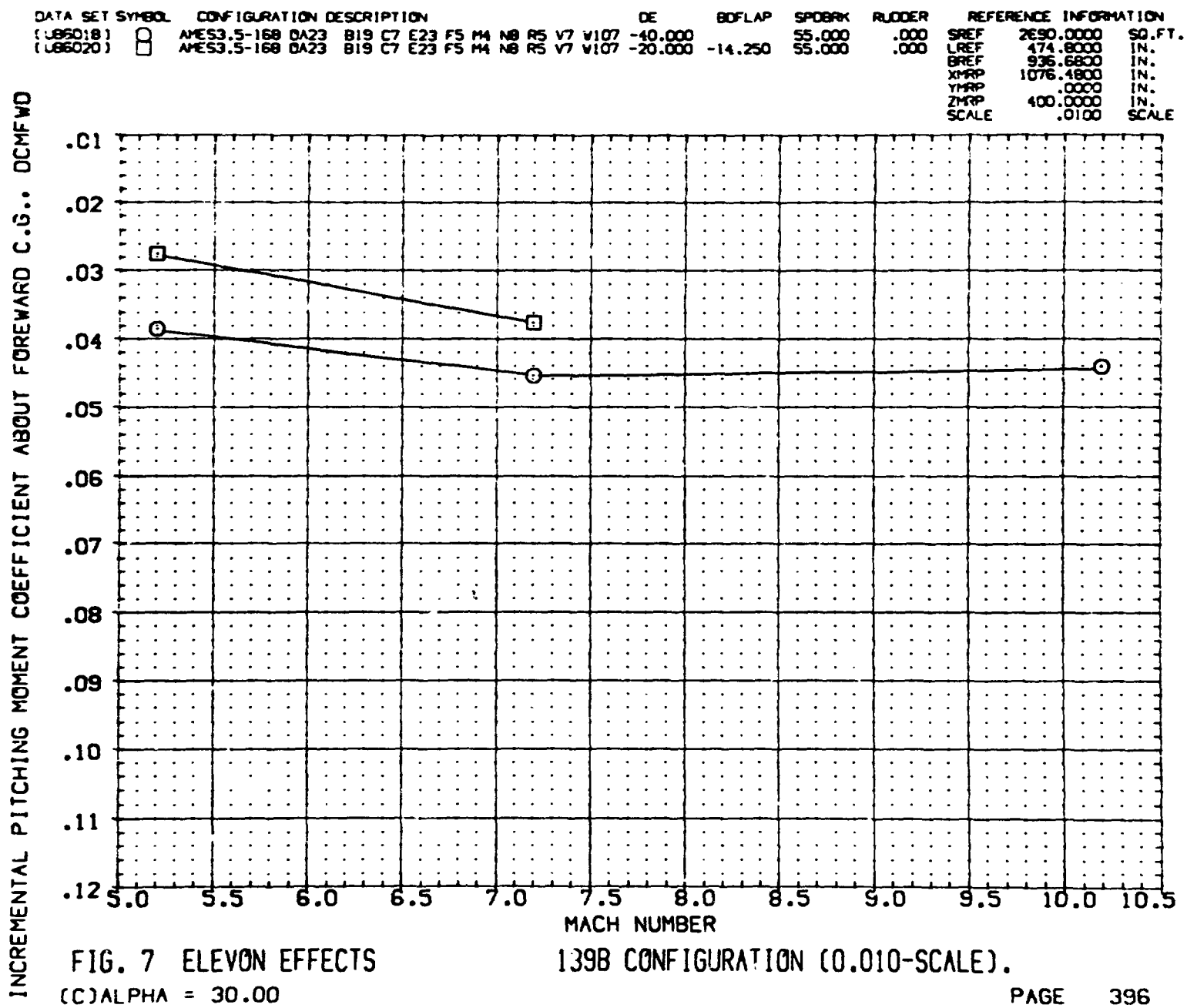


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	○	AMES3.5-168 0A27 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

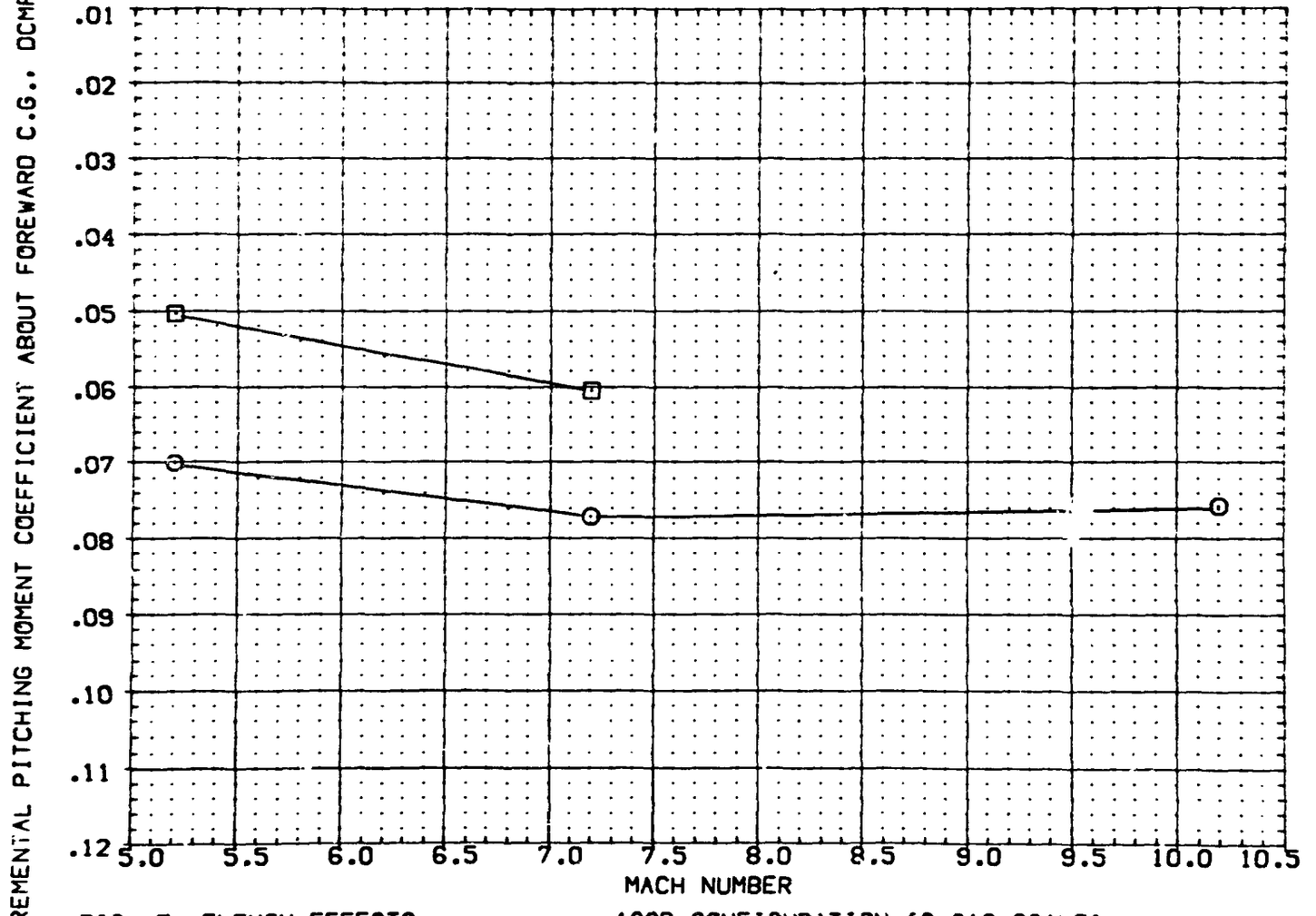


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

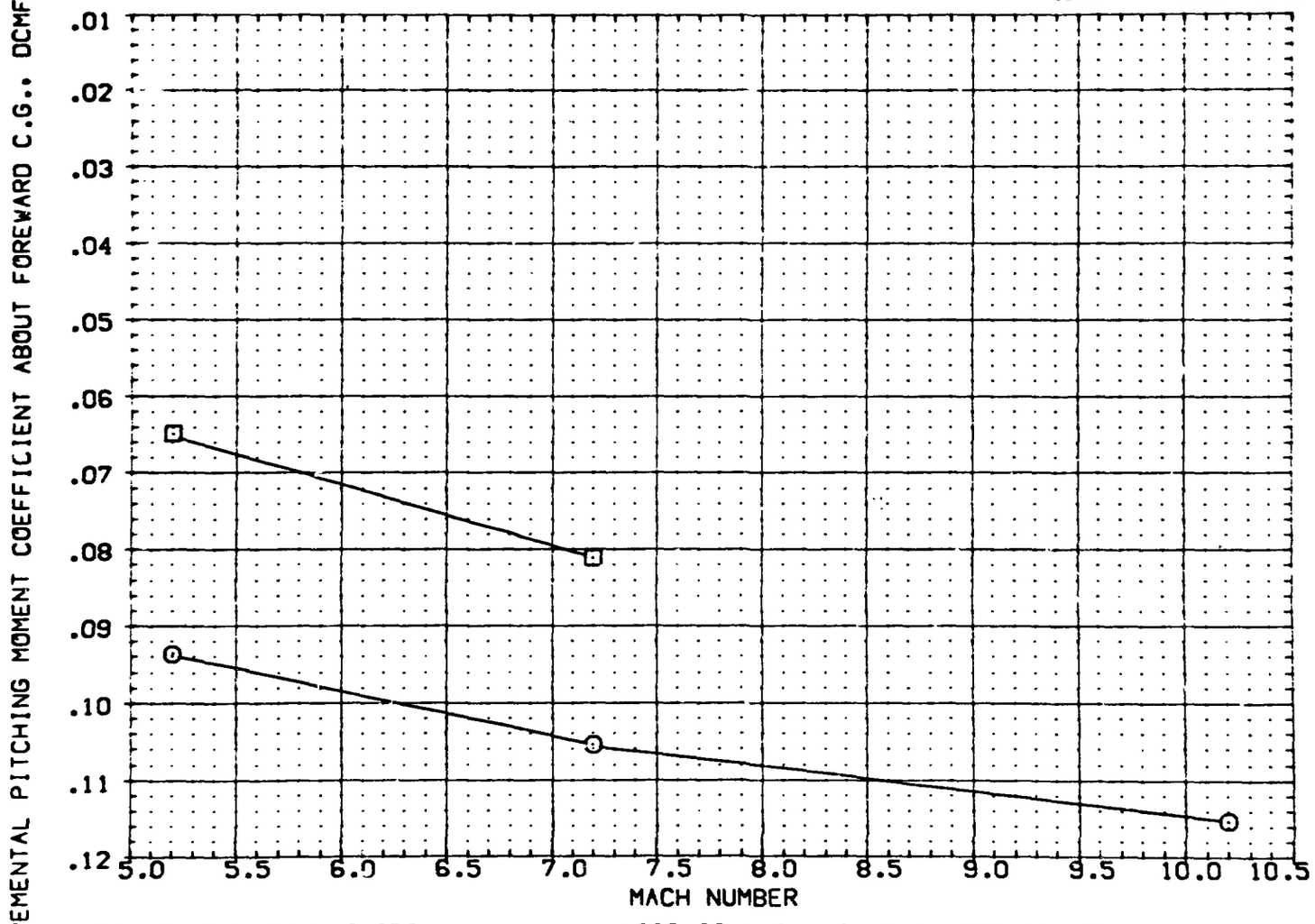


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

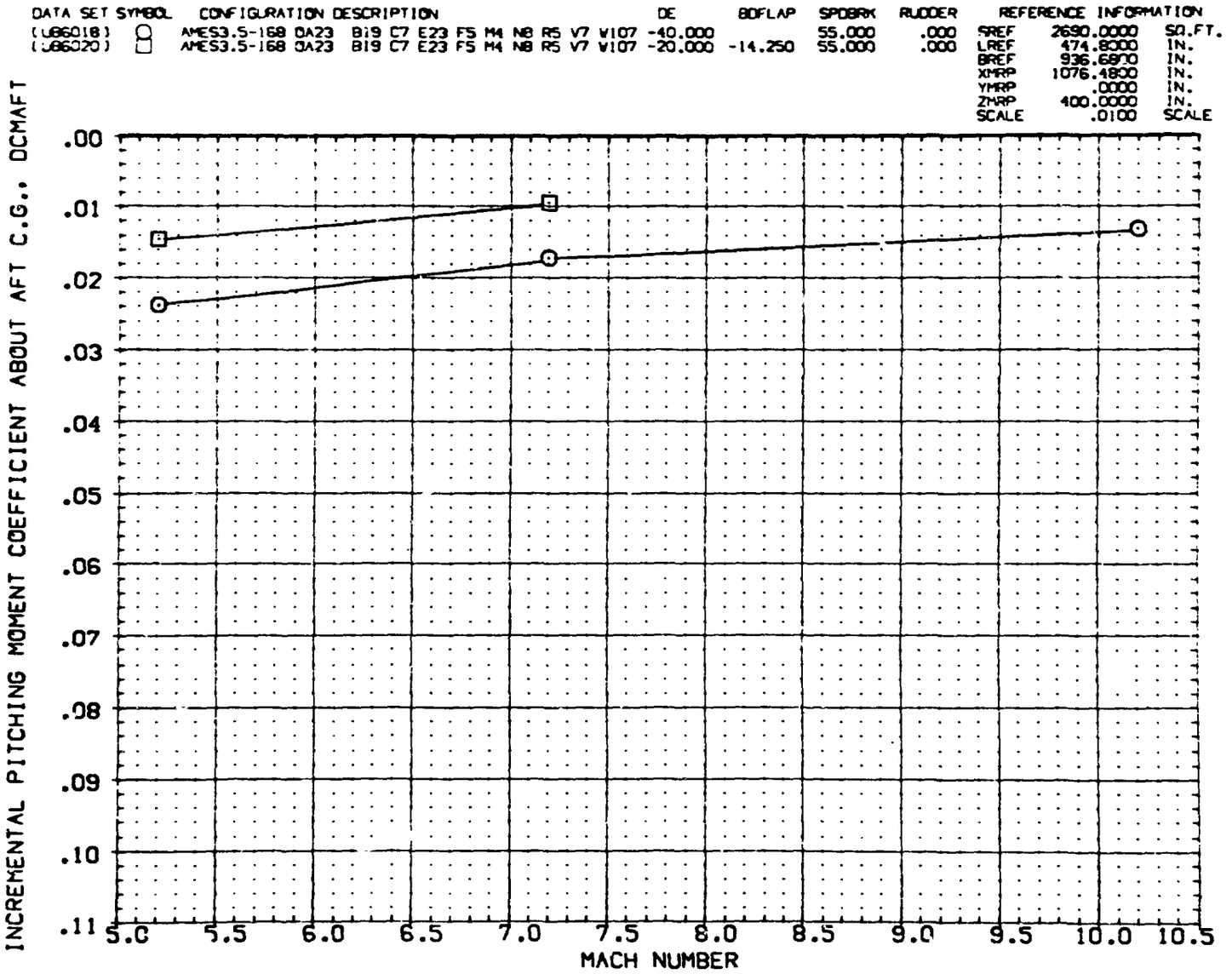


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

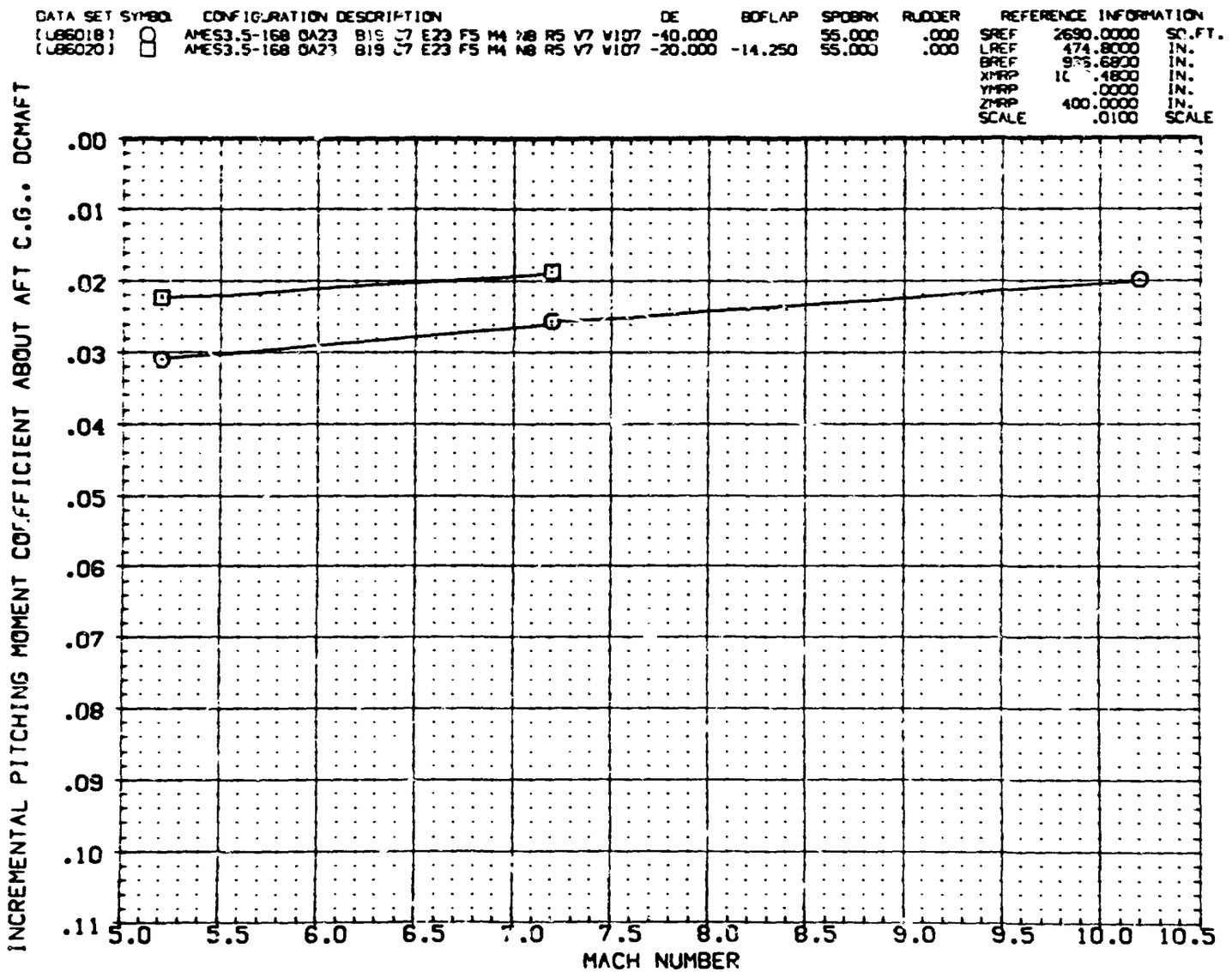


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

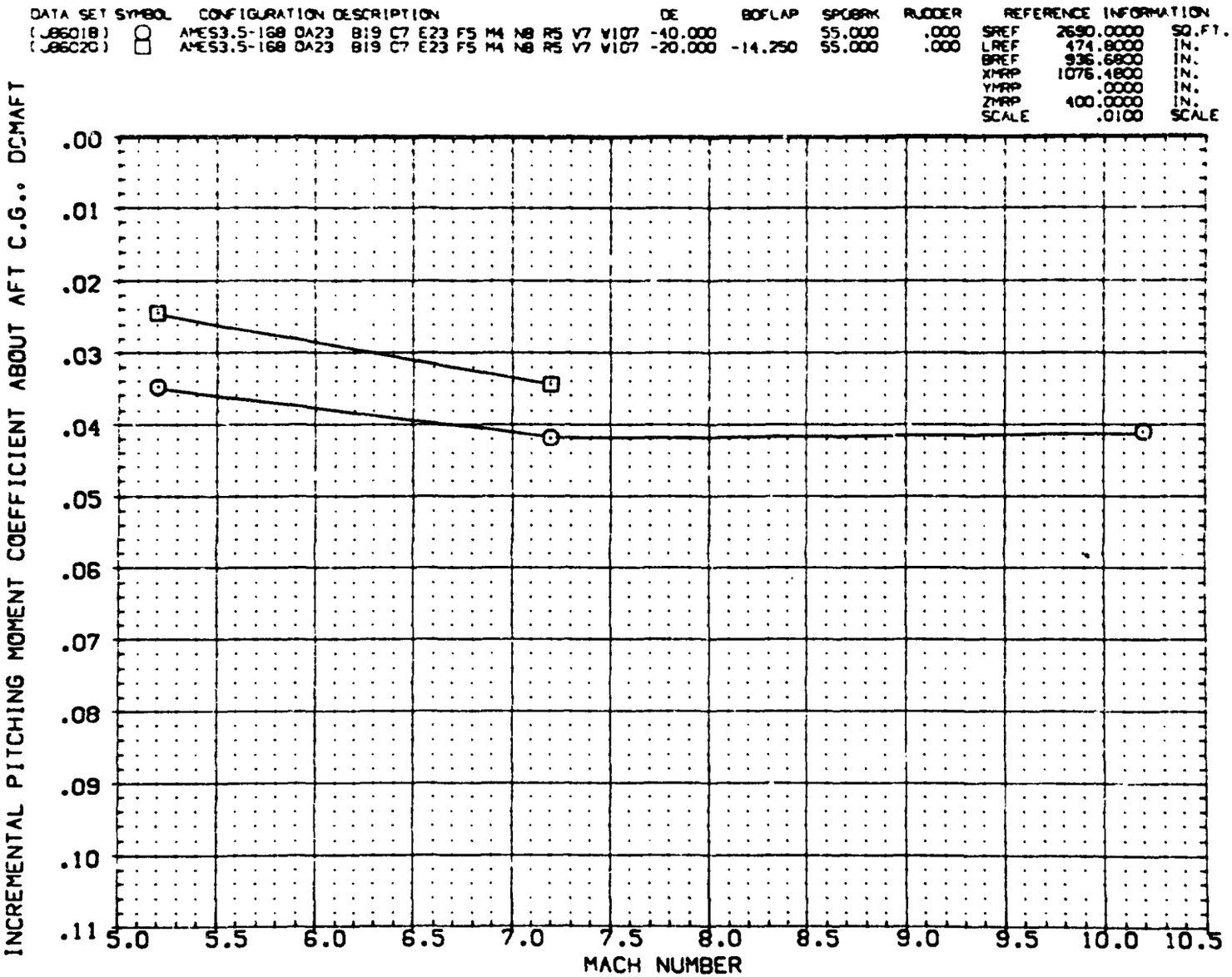


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

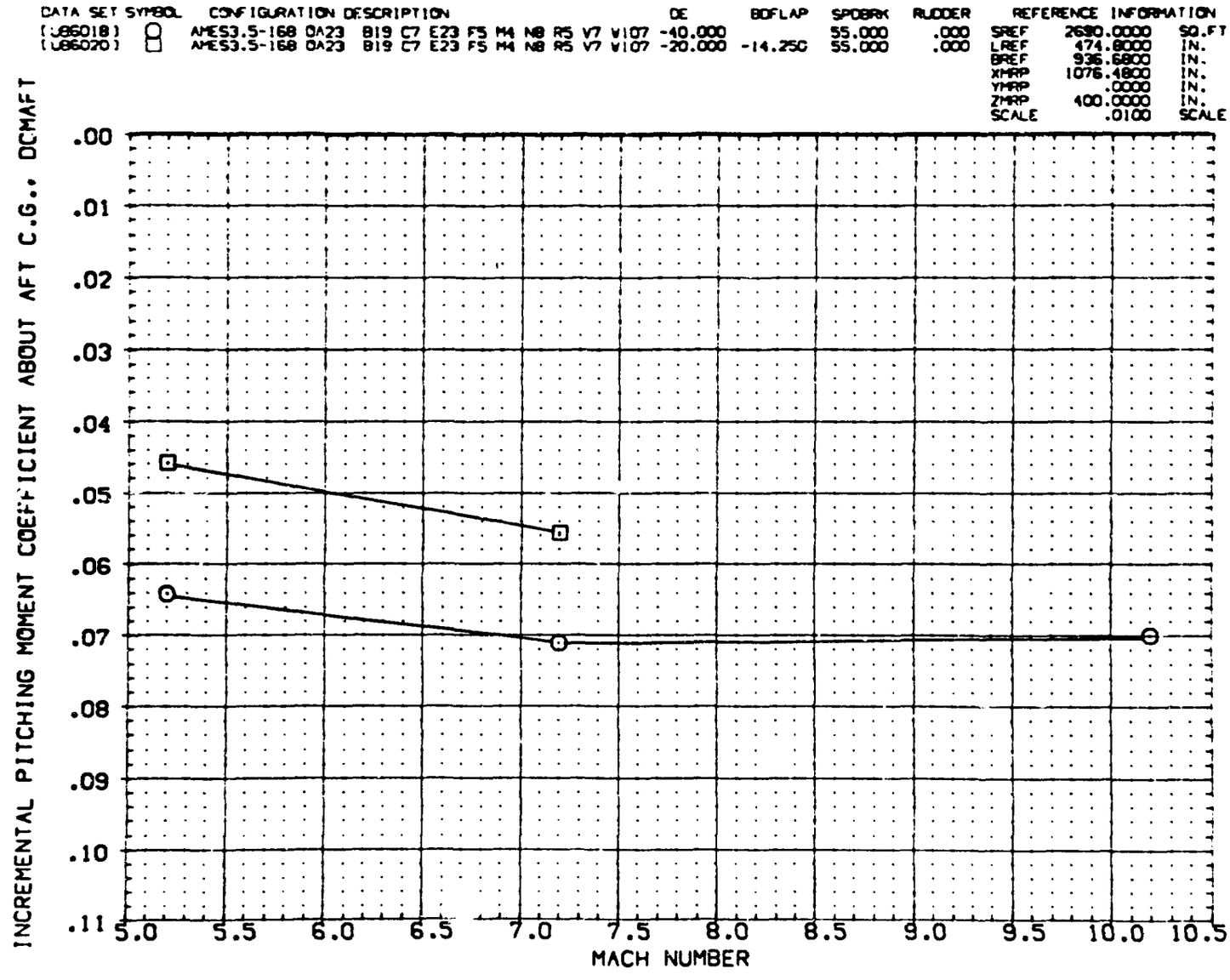


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER
(U86018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000		55.000	.000
(U86020)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

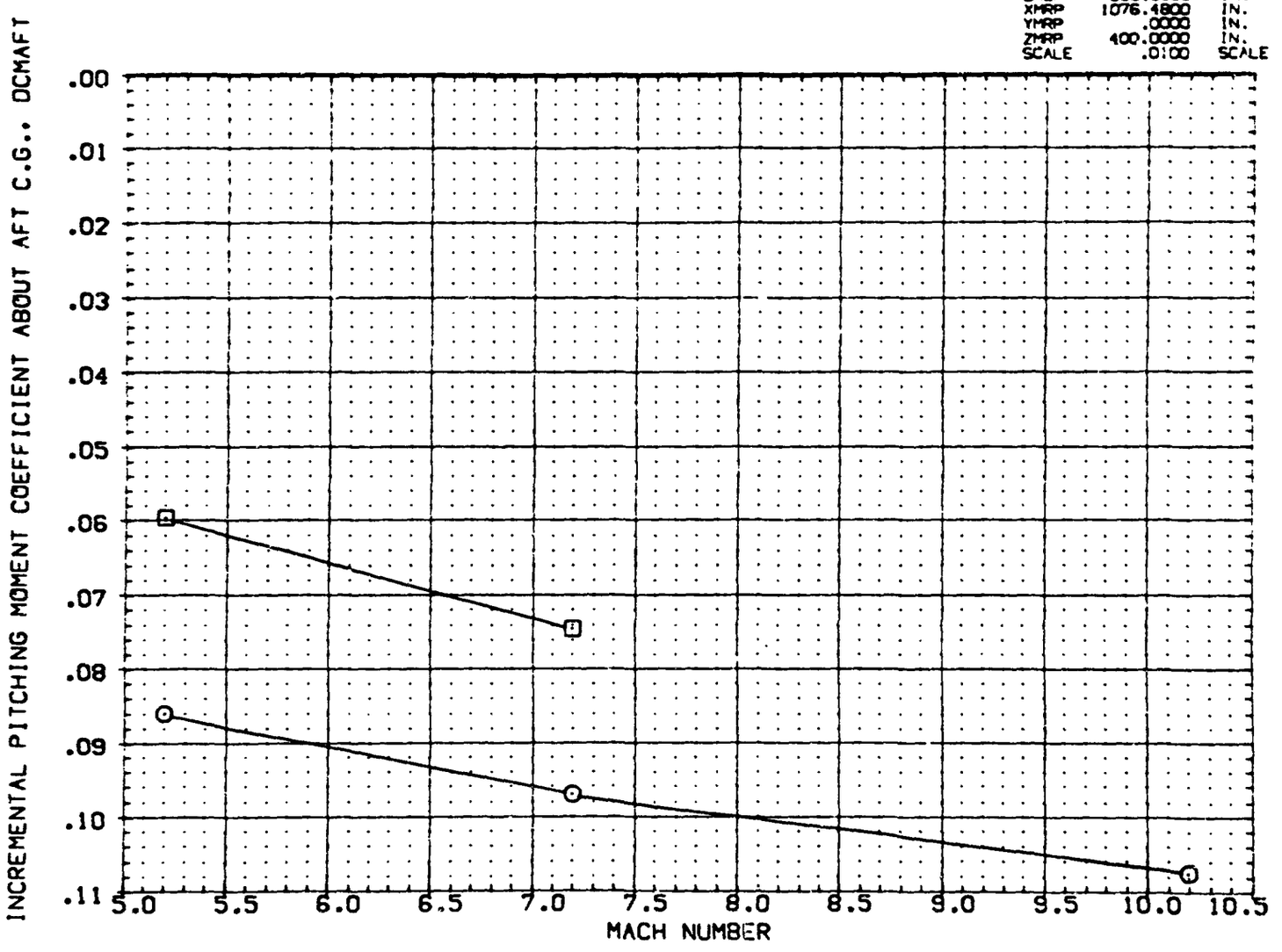


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	12.000	MACH	5.200	DBF	-14.250	DATASET	DE	DATASET	DE	SREF	2690.0000	SQ.FT.
□	20.000	BETA	.000	AILRON	.000	UB6018	-40.000	UB6019	-30.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6020	-20.000	UB6021	-10.000	BREF	936.6800	IN.
△	40.000					UB6012	.000	UB6013	10.000	XMRP	1076.4800	IN.
◺	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

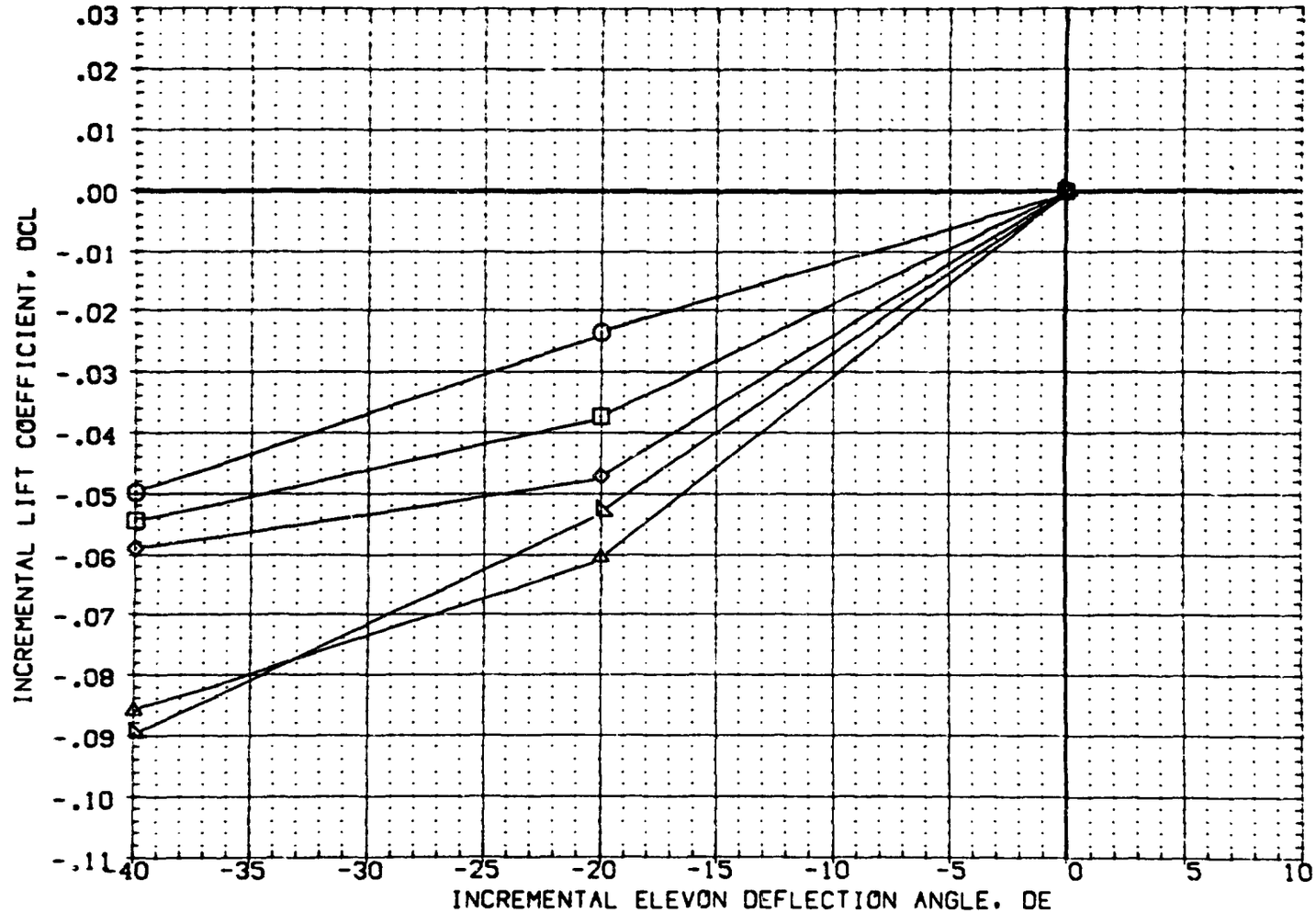


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

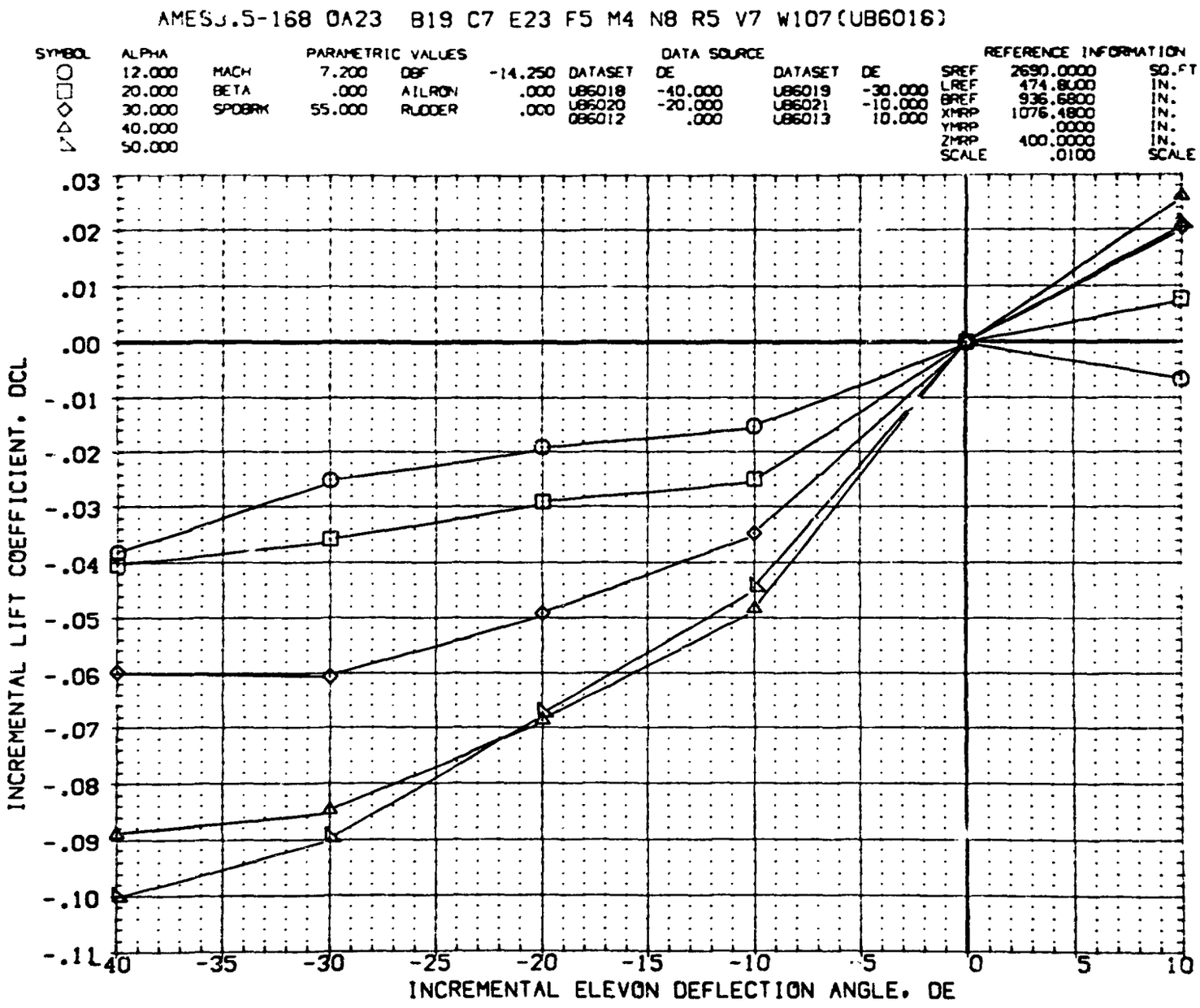


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	12.000	MACH	10.200	DBF	-14.250	DATASET	DE	DATASET	DE	SREF	2690.0000	SQ.FT.
□	20.000	BETA	.000	AILRON	.000	UB6018	-40.000	UB6019	-30.000	LREF	474.8000	IN.
◇	30.000	SPDBRK	55.000	RUDDER	.000	UB6020	-20.000	UB6021	-10.000	BREF	936.6800	IN.
△	40.000					UB6012	.000	UB6013	10.000	XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

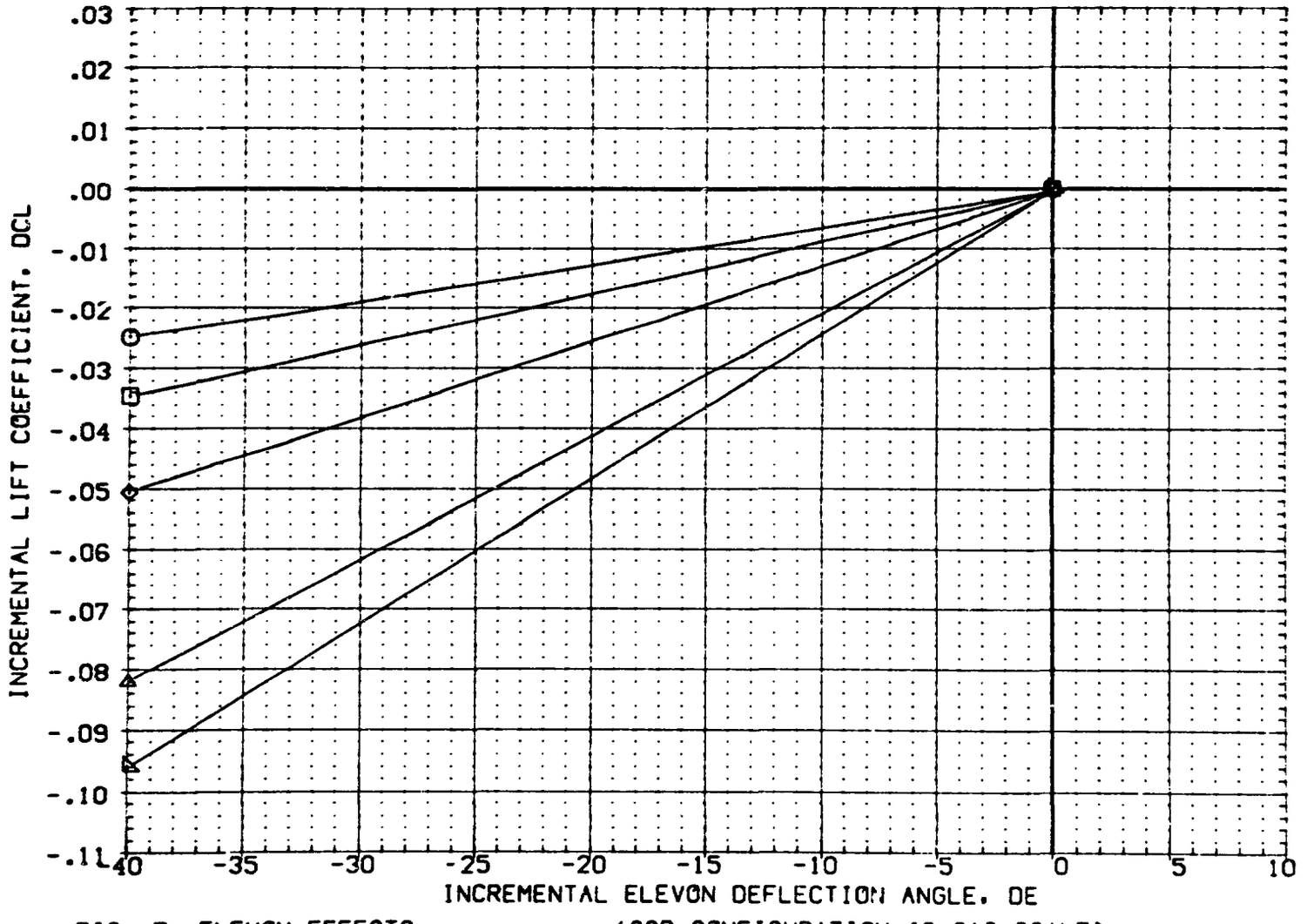


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

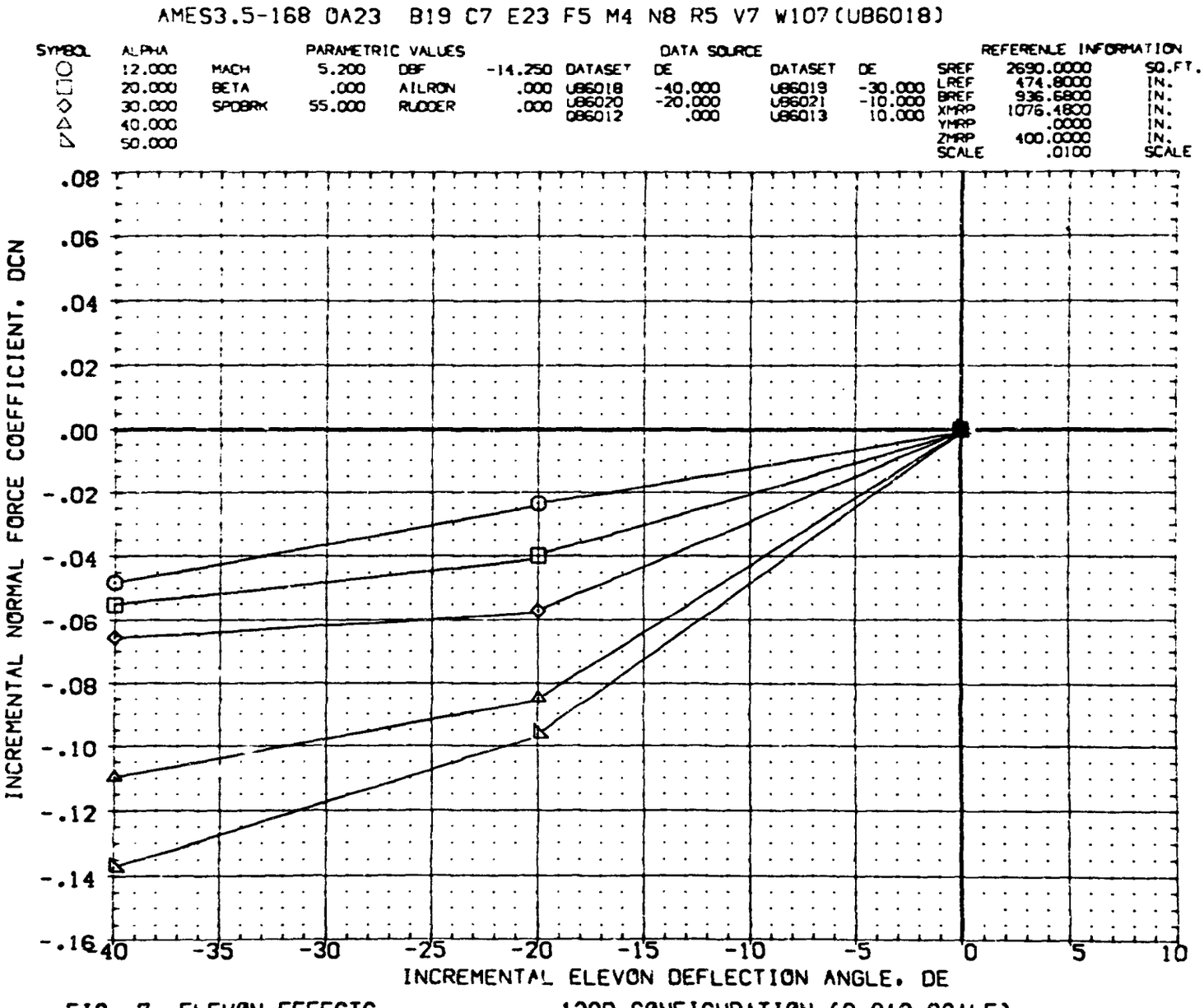


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	12.000	MACH	7.200	DBF	-14.250	DATASET	DE	DATASET	DE	SREF	2690.0000	SQ.FT.
□	20.000	BETA	.000	AILRON	.000	UB6018	-40.000	UB6019	-30.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6020	-20.000	UB6021	-10.000	BREF	936.6800	IN.
△	40.000					UB6012	.000	UB6013	10.000	XMRP	1076.4800	IN.
◸	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

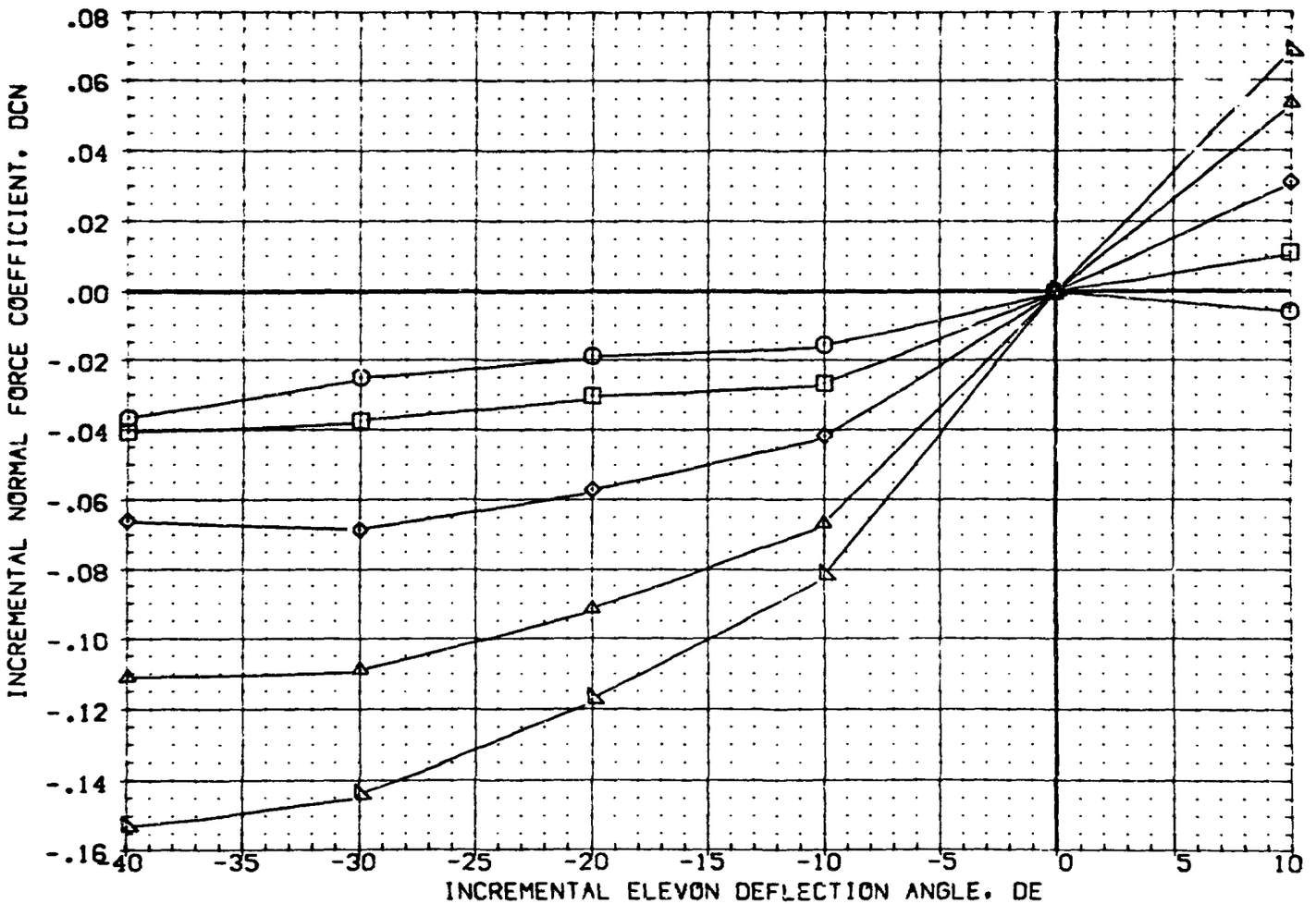


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

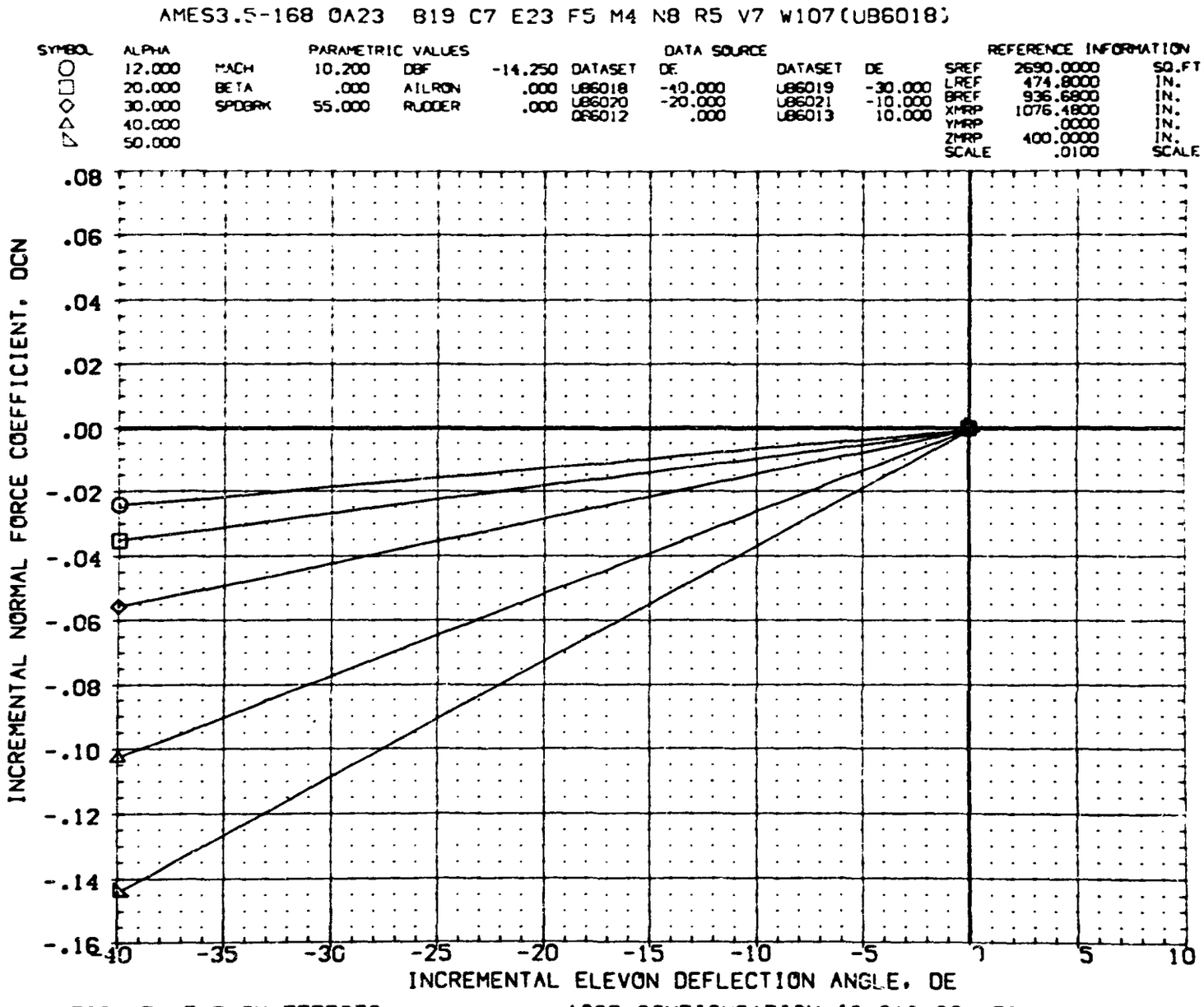


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

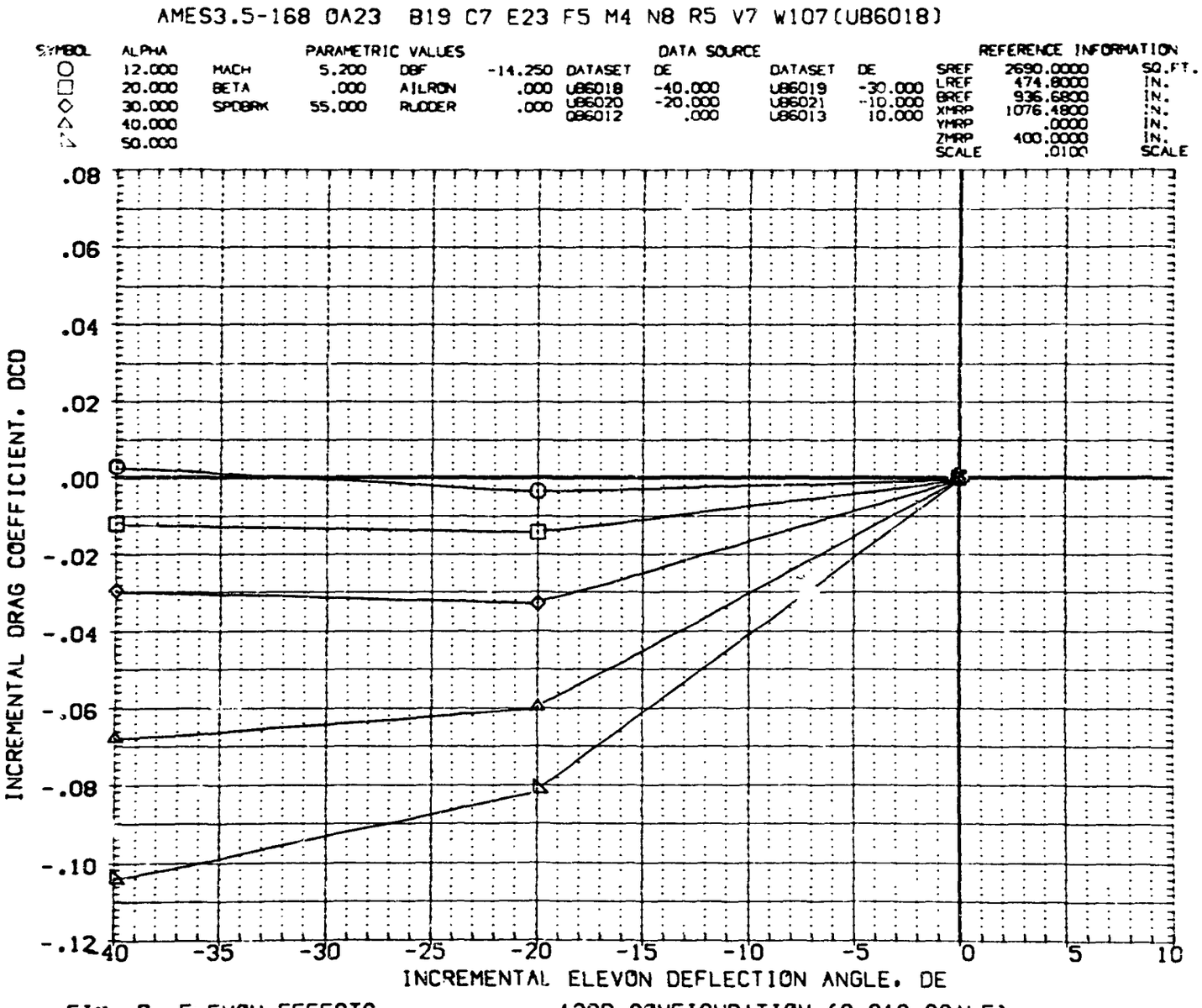


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

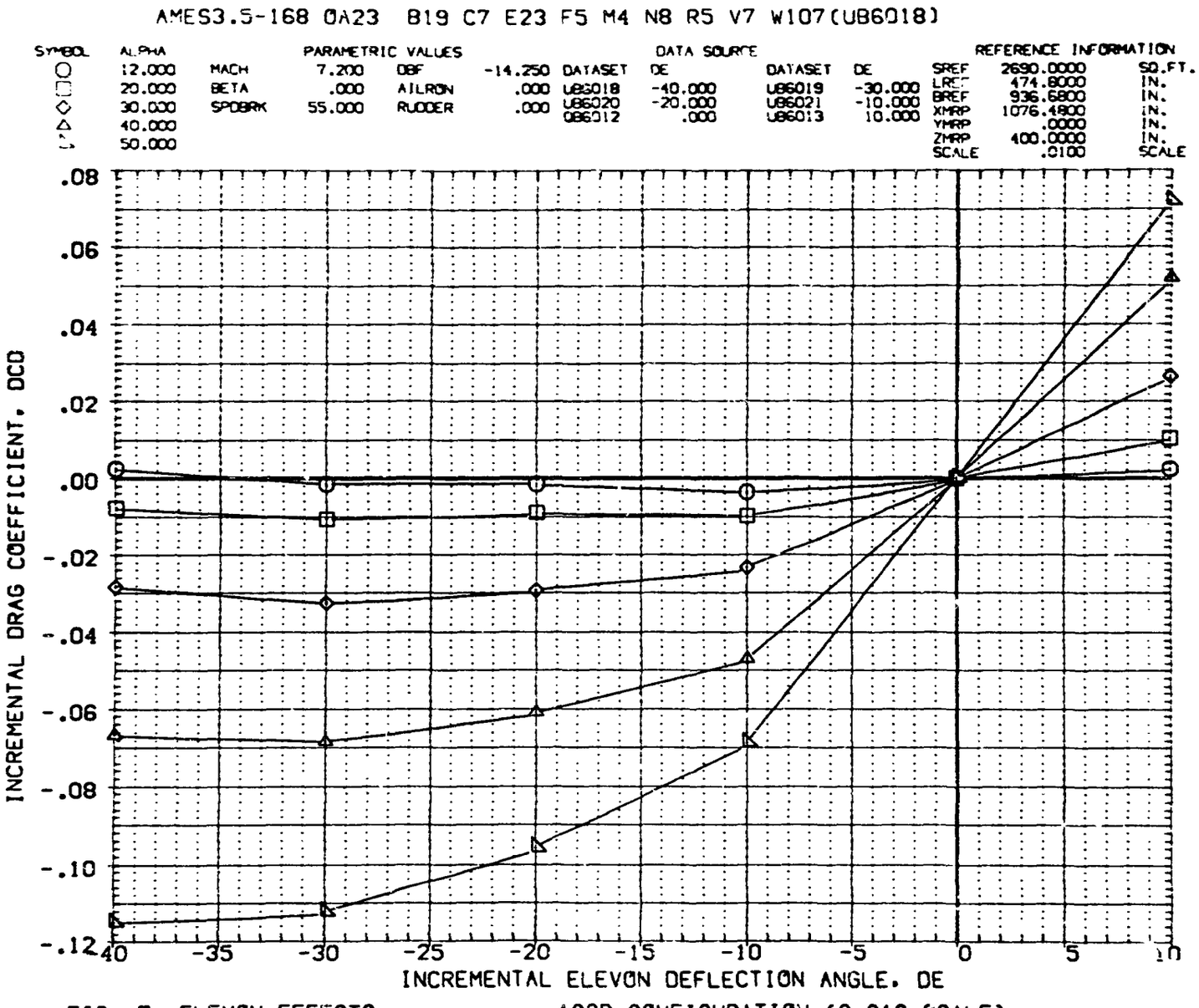


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

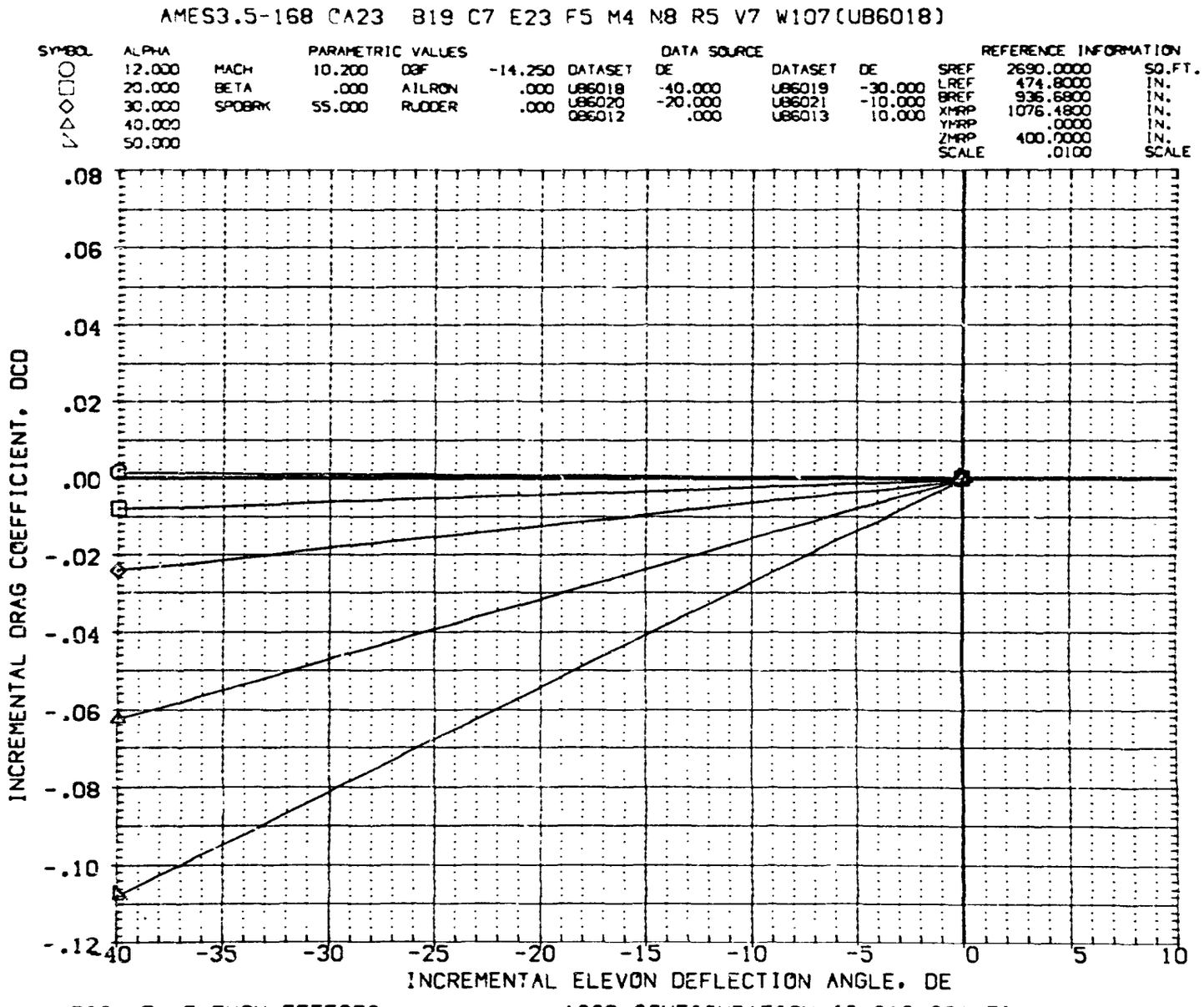


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

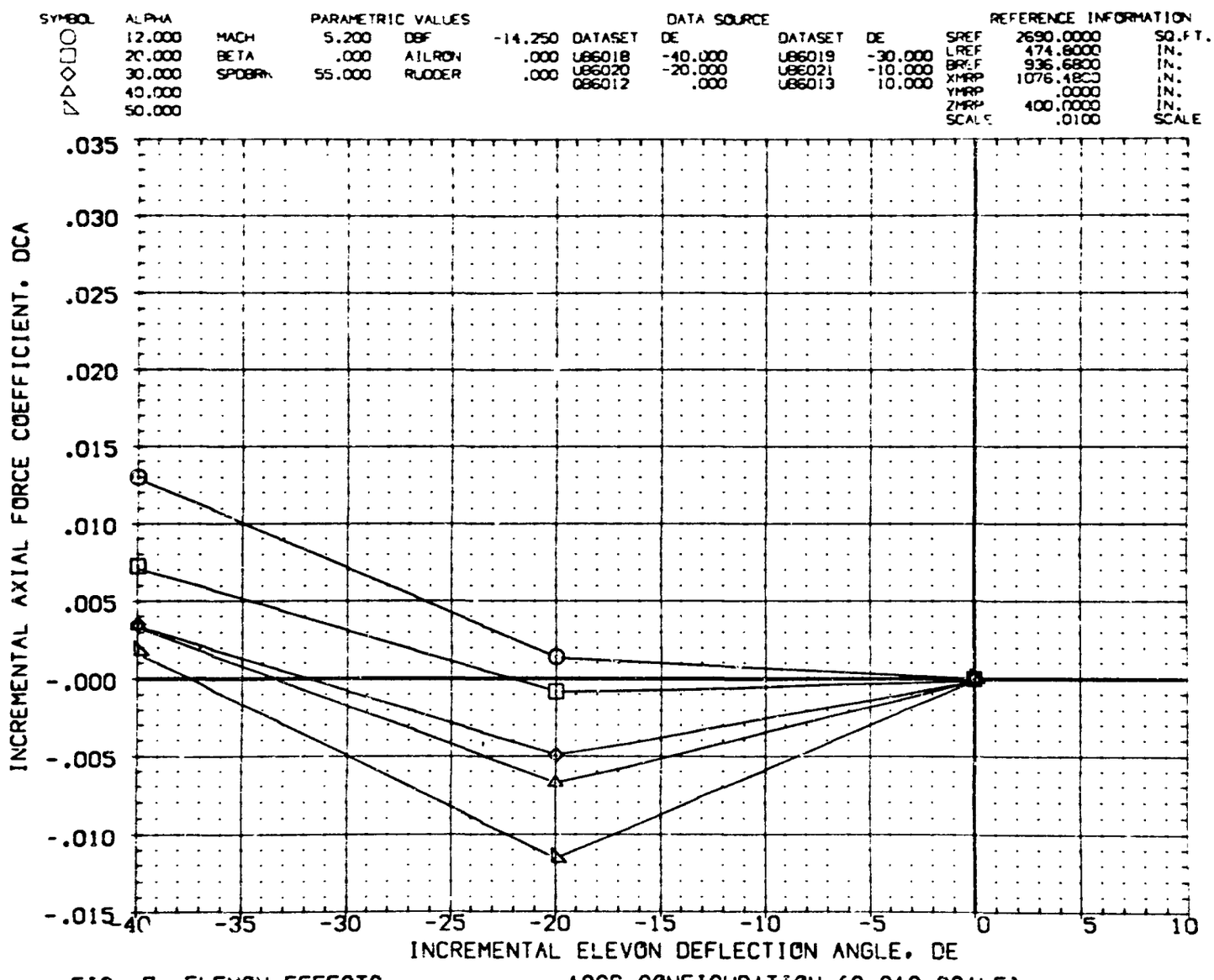


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

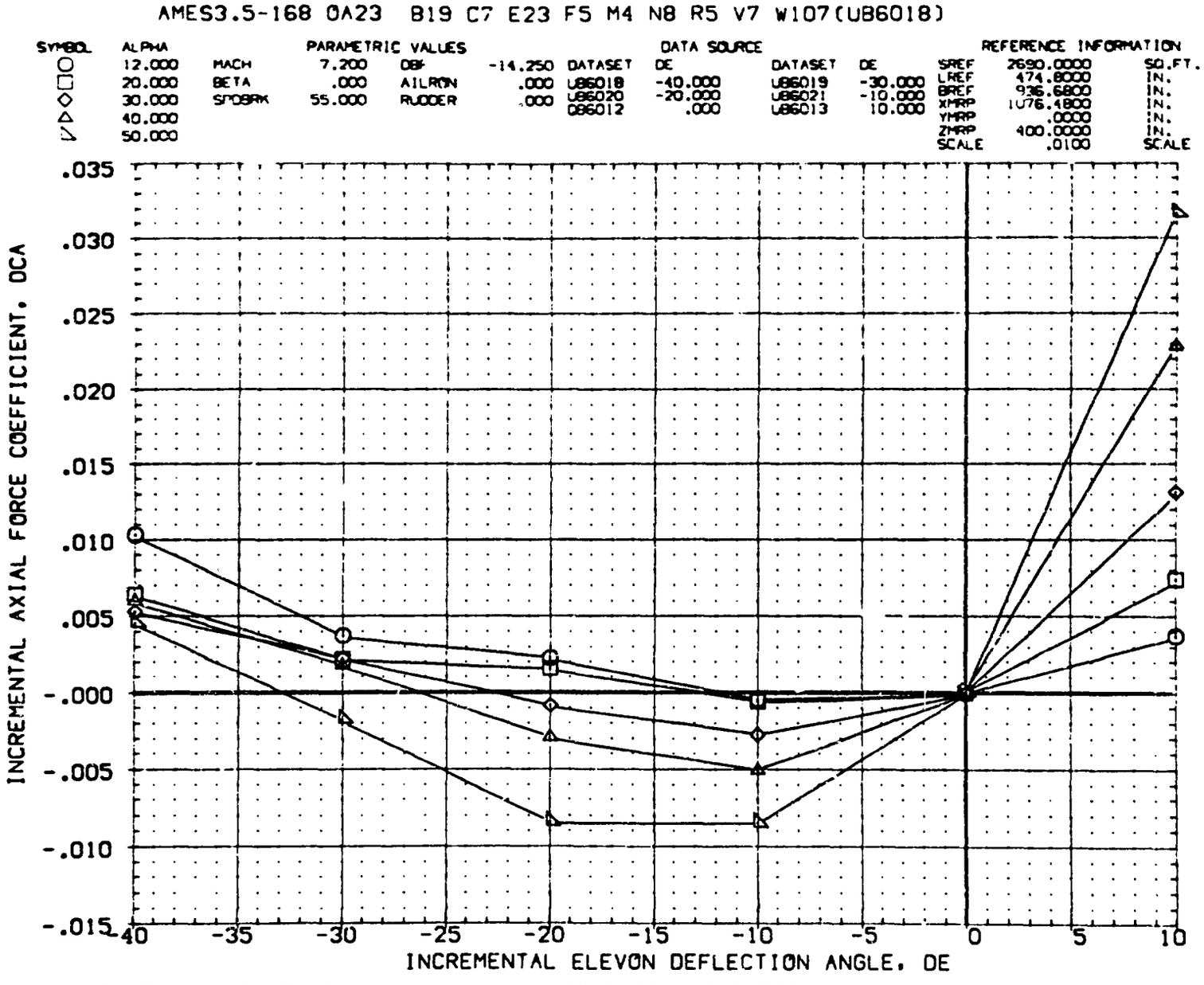


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

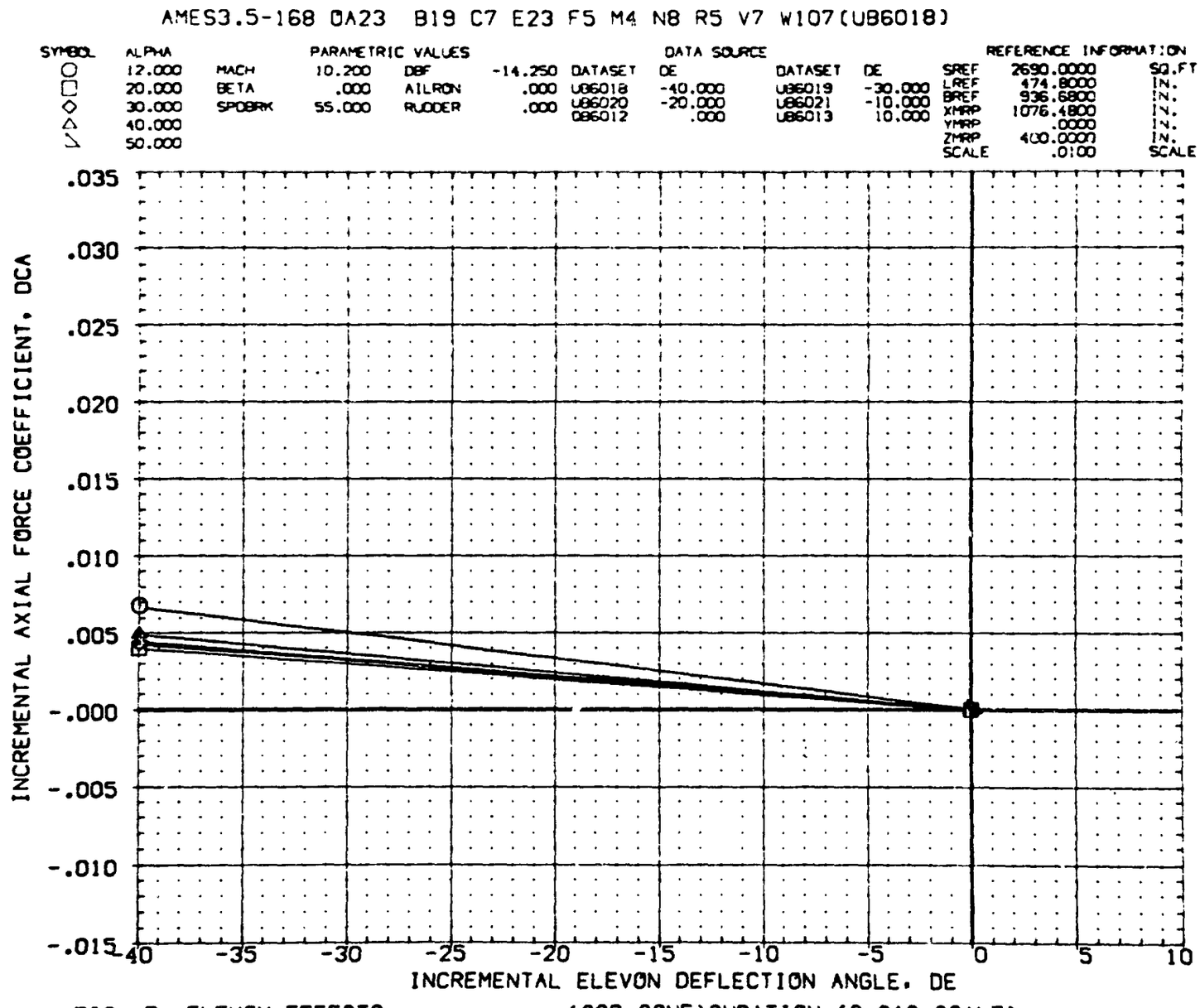


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

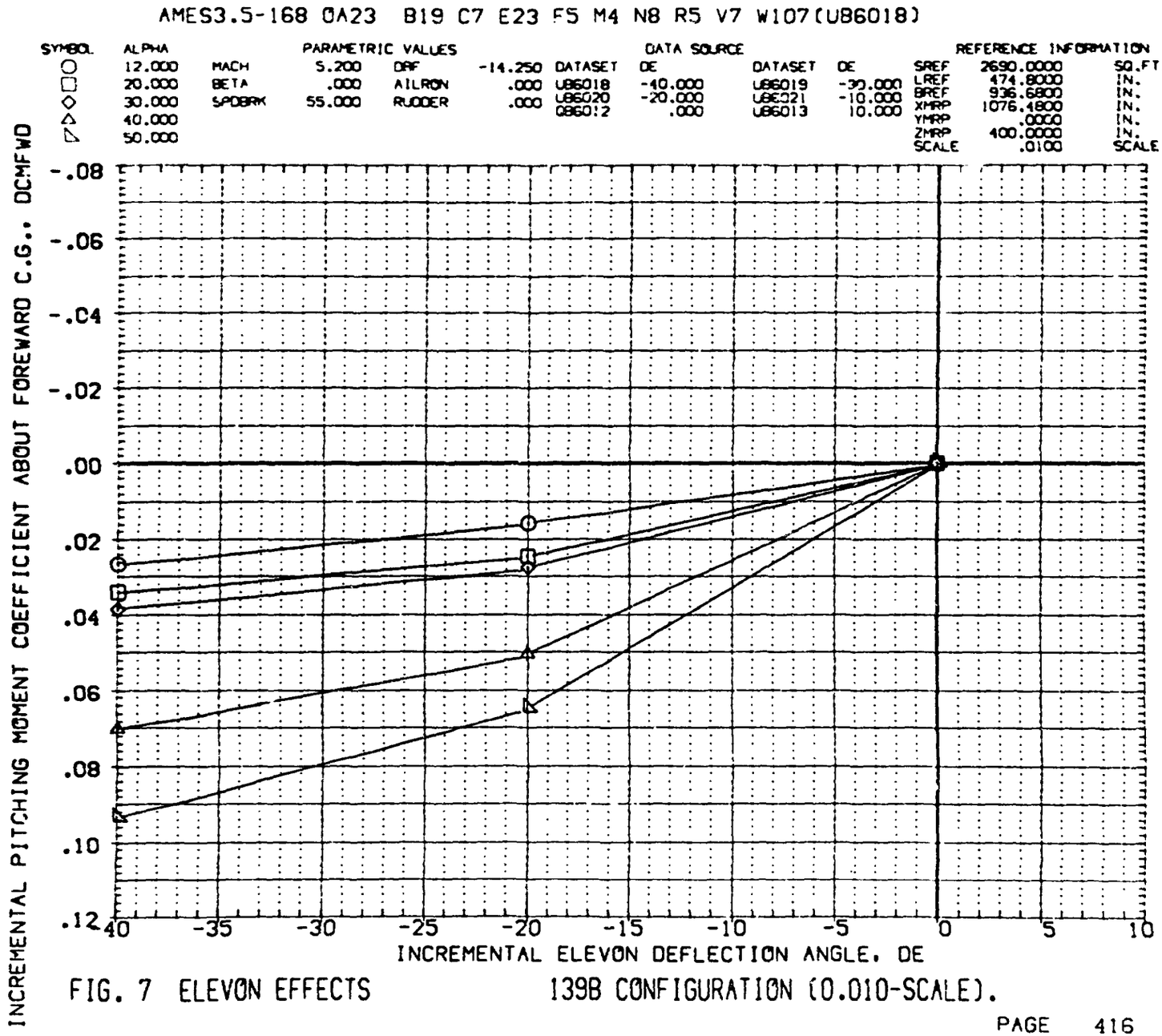


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	12.000	MACH	7.200	DBF	-14.250	DATASET	DE	DATASET	DE	SREF	2690.0000	SQ.FT.
□	20.000	BETA	.000	AILRON	.000	UB6018	-40.000	UB6019	-30.000	LREF	474.6000	IN.
◇	30.000	SPDBRK	55.000	RUDDER	.000	UB6020	-20.000	UB6021	-10.000	BREF	936.6800	IN.
△	40.000					UB6012	.000	UB6013	10.000	XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

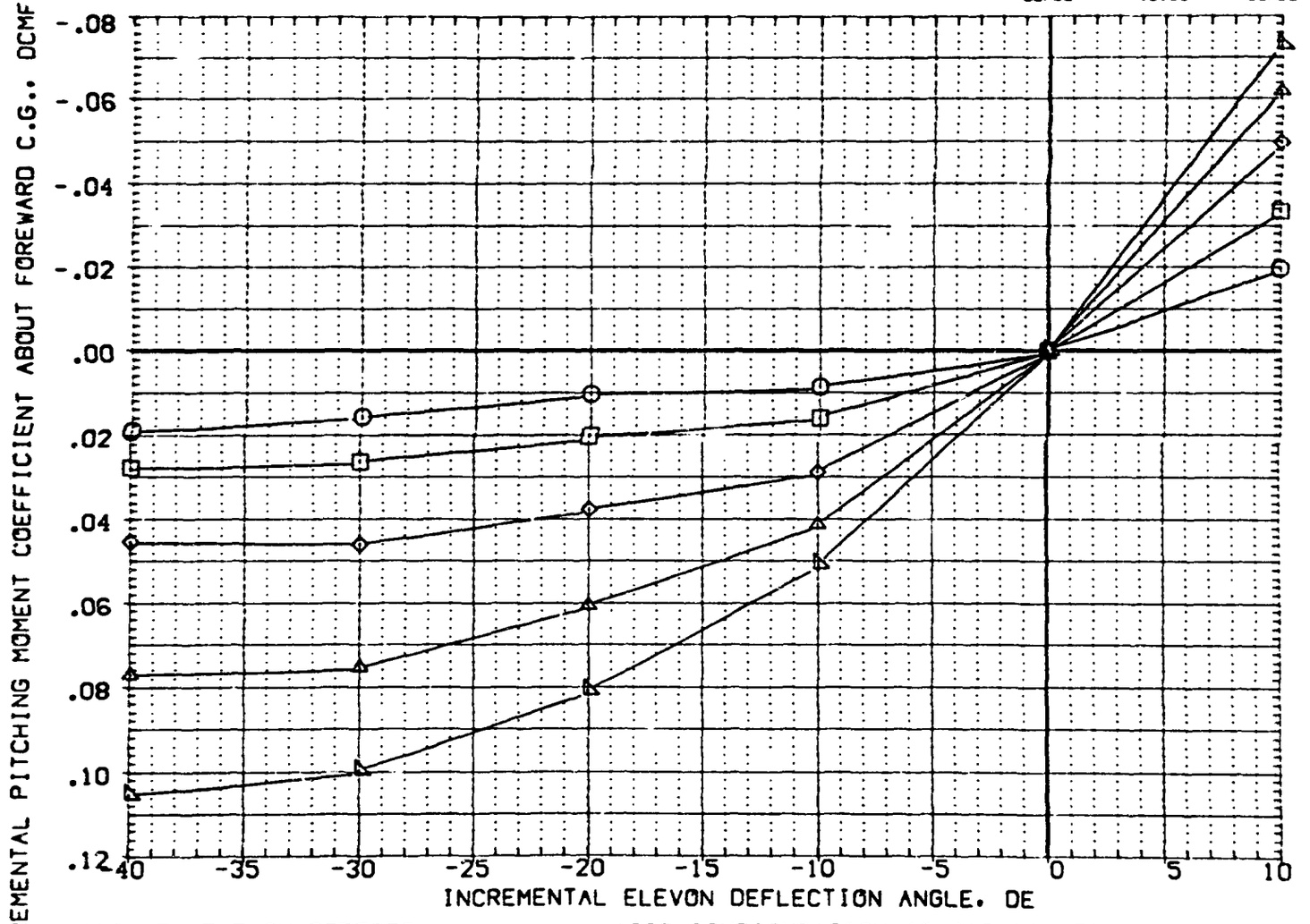


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

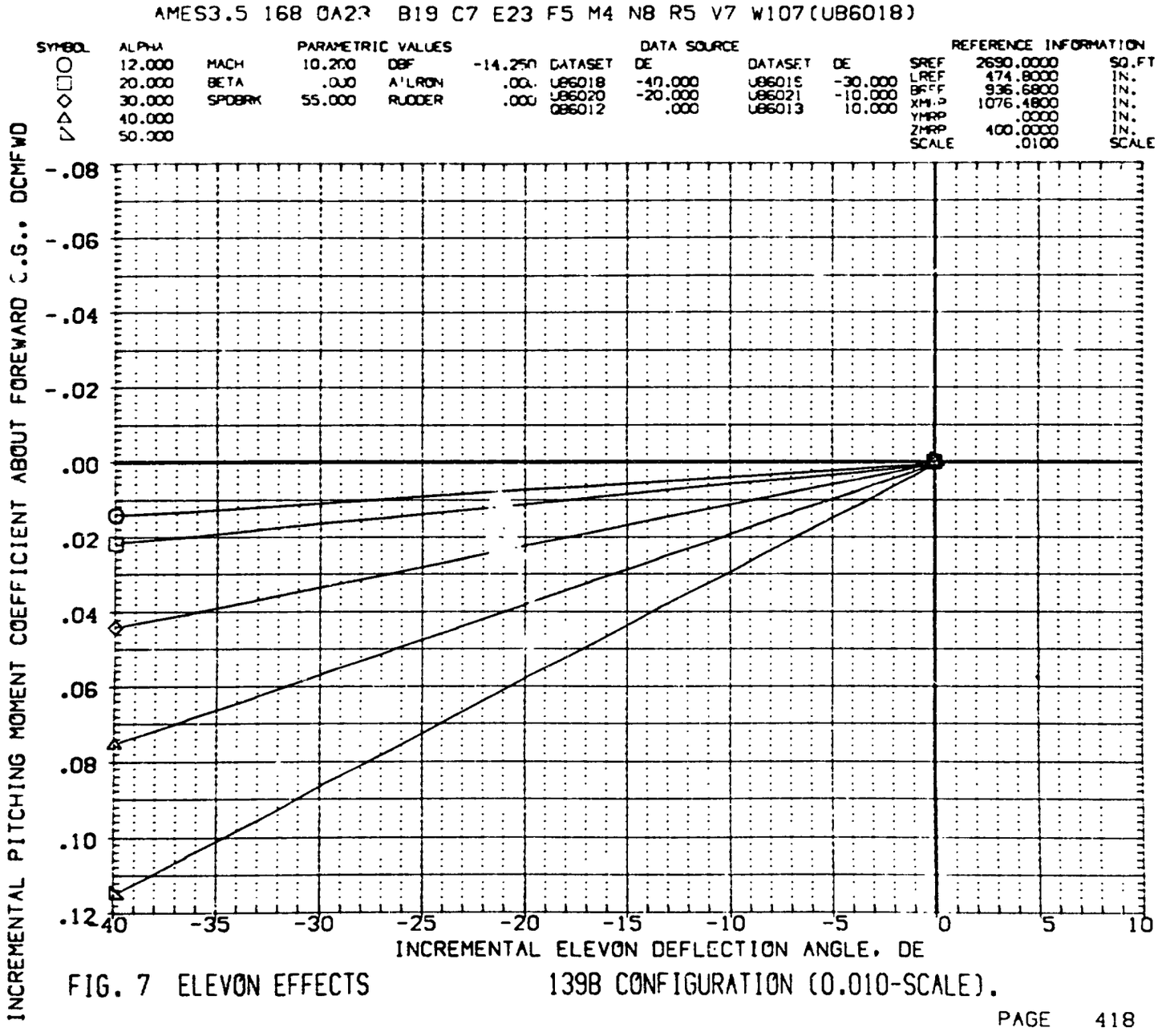


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

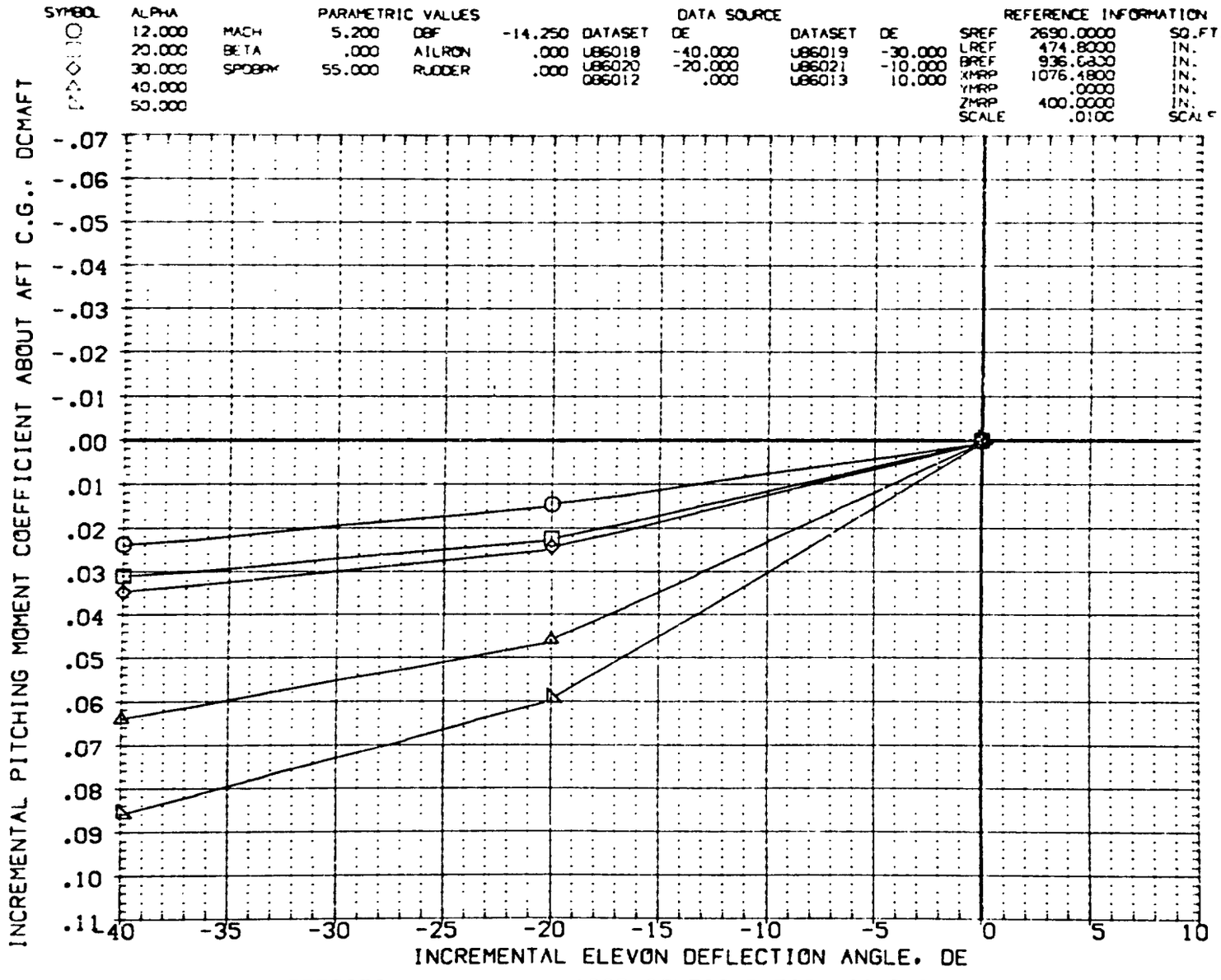


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

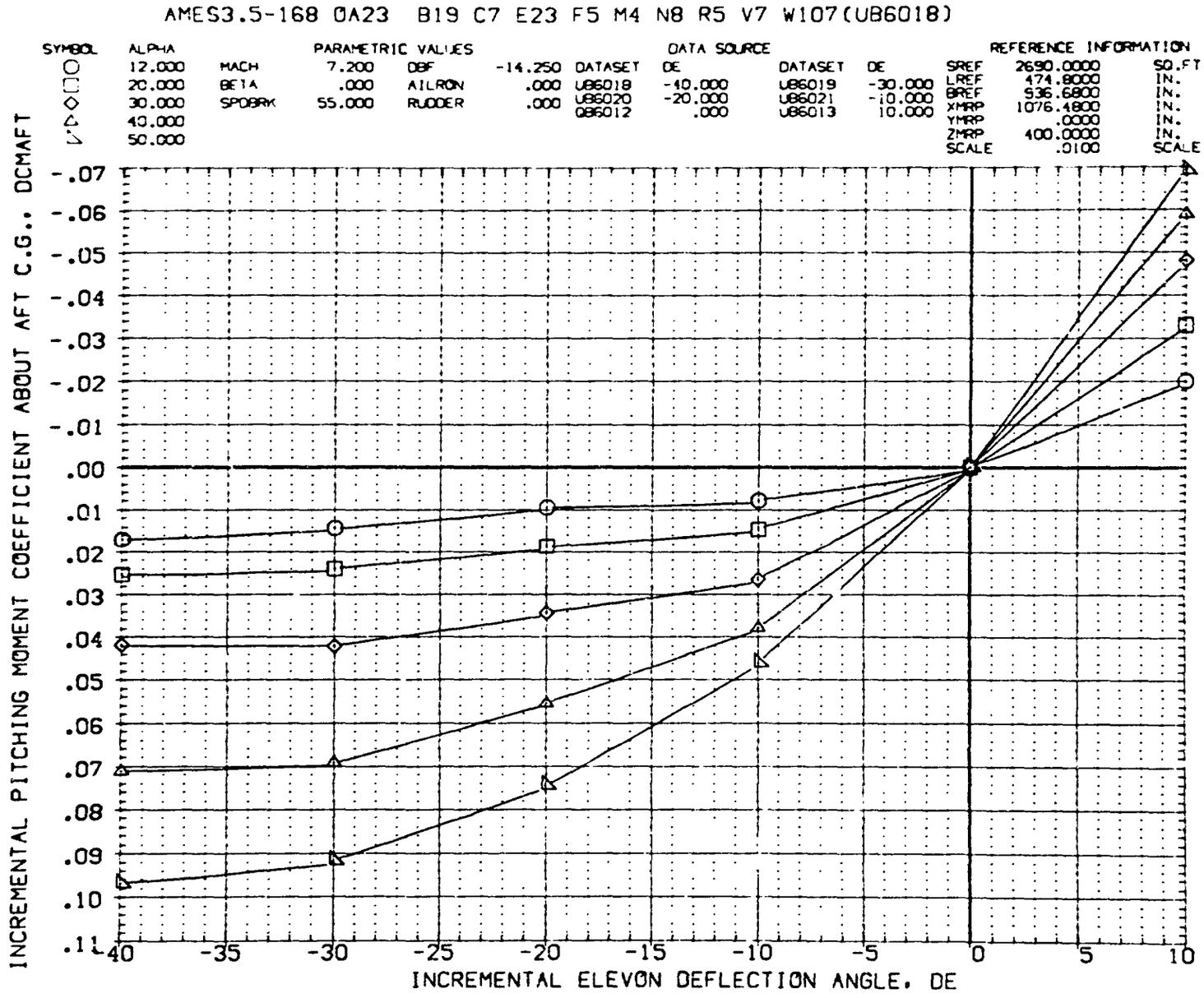


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

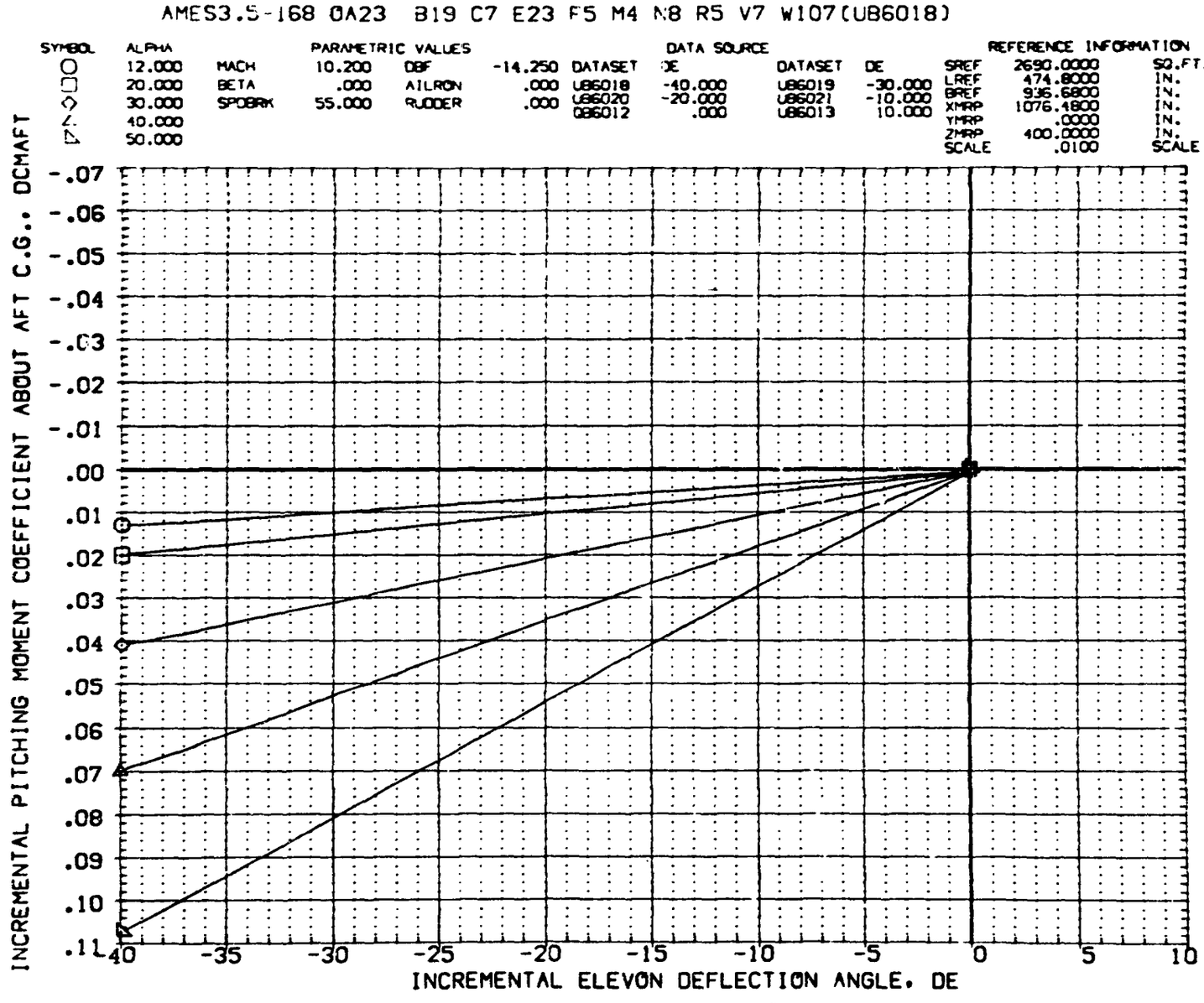


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(C86012)	▢	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-11.250	55.000	.000
(C86010)	▢	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(C86011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

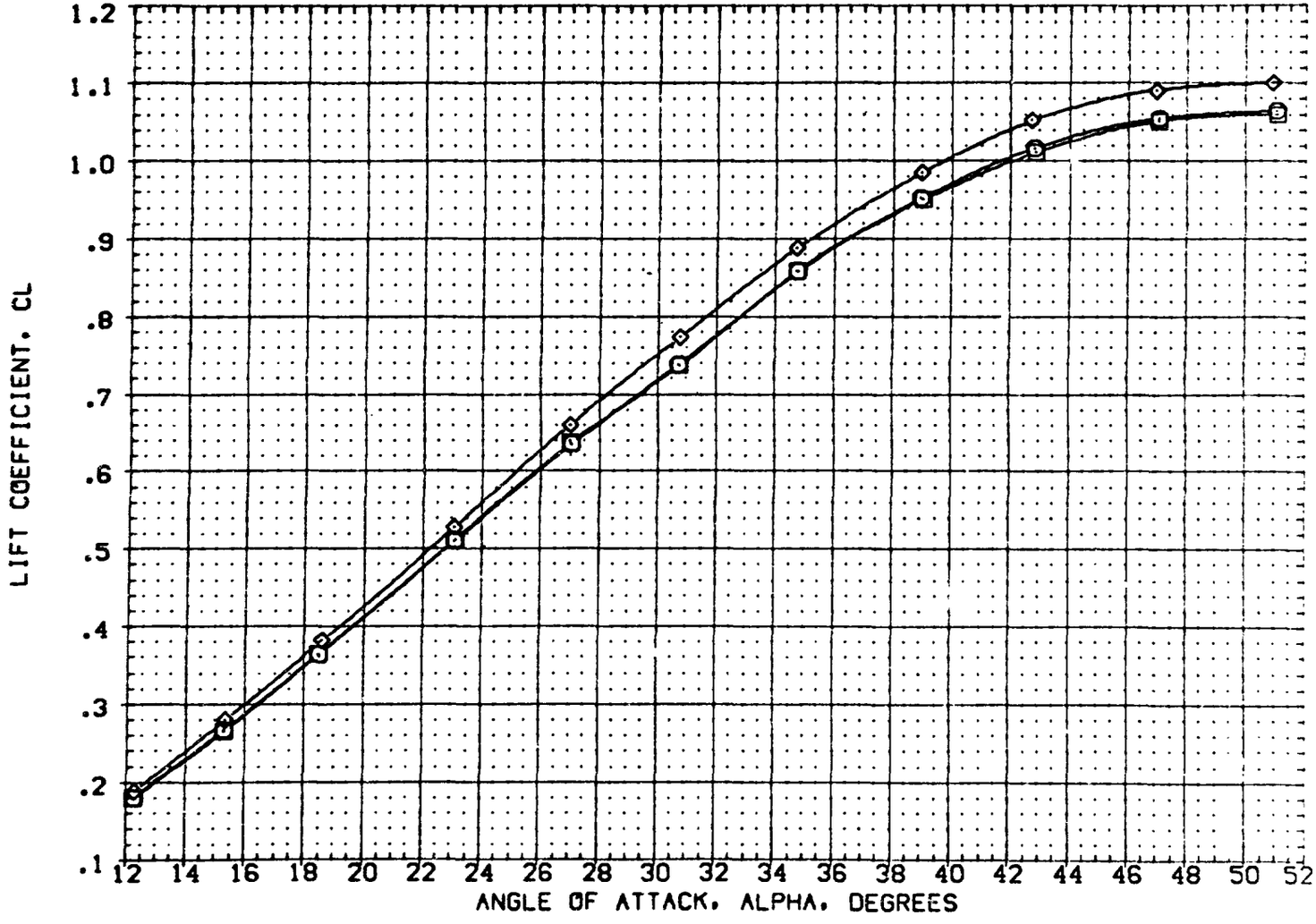


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	▭	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	▭	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	930.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

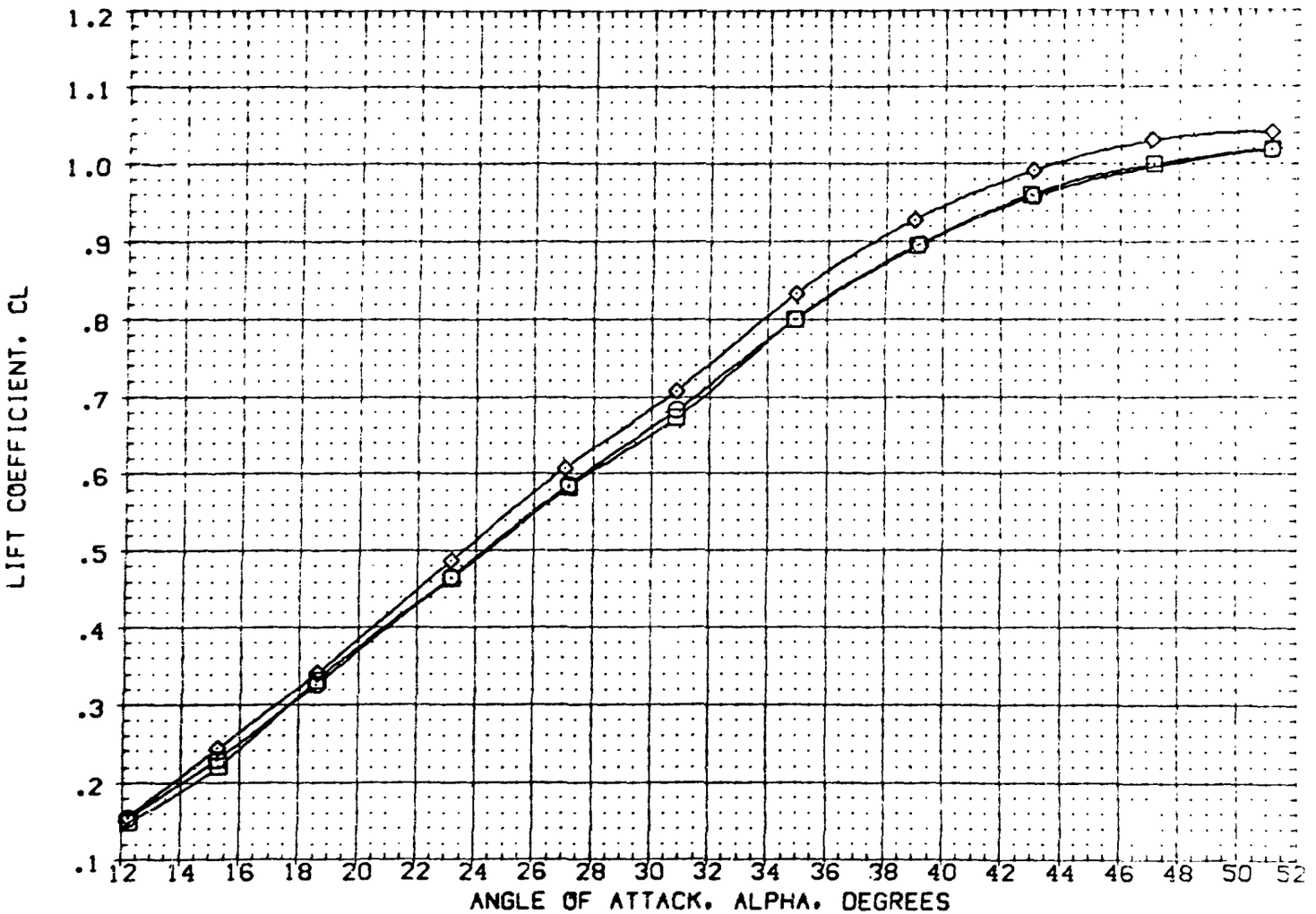


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4900	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

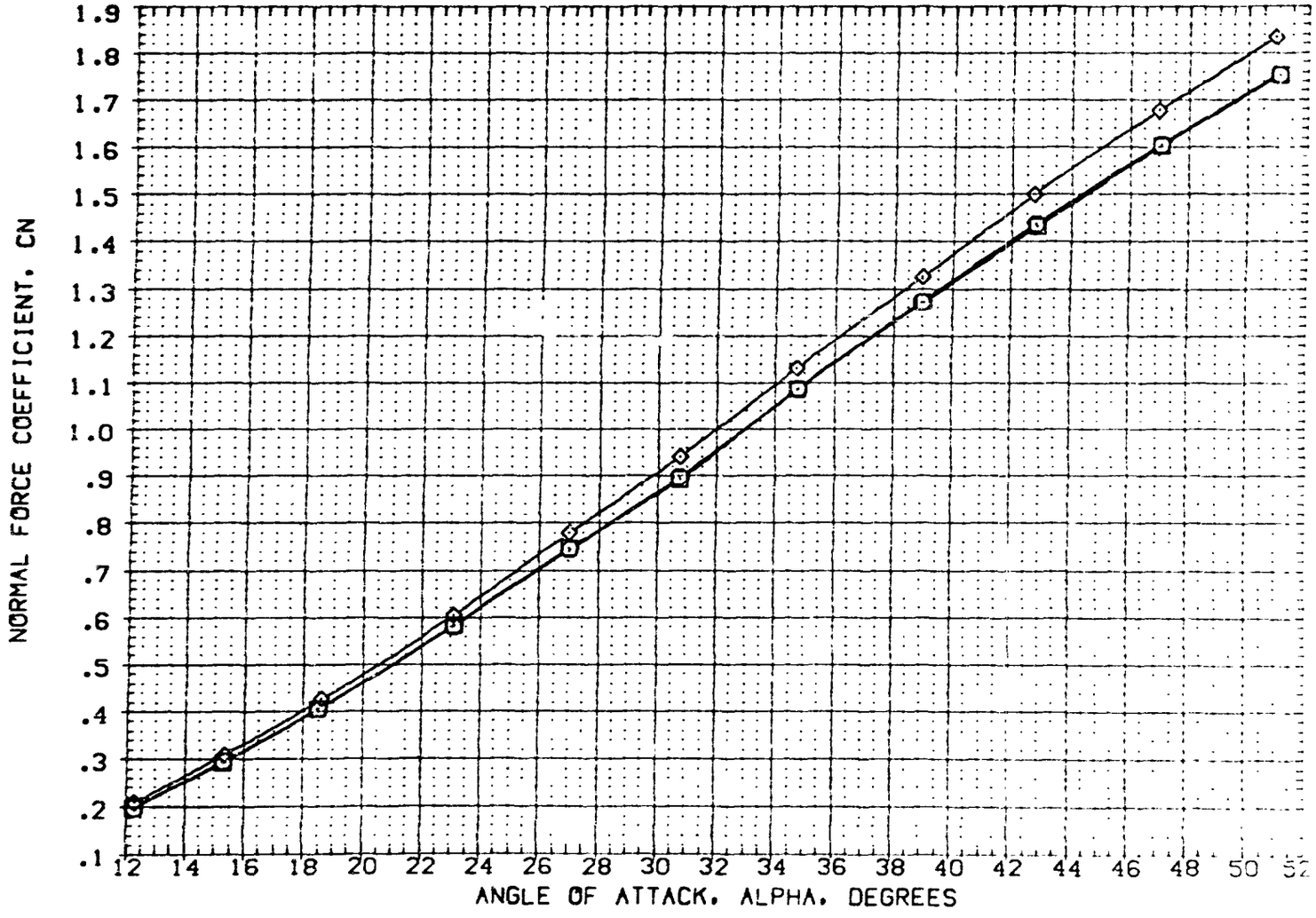


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

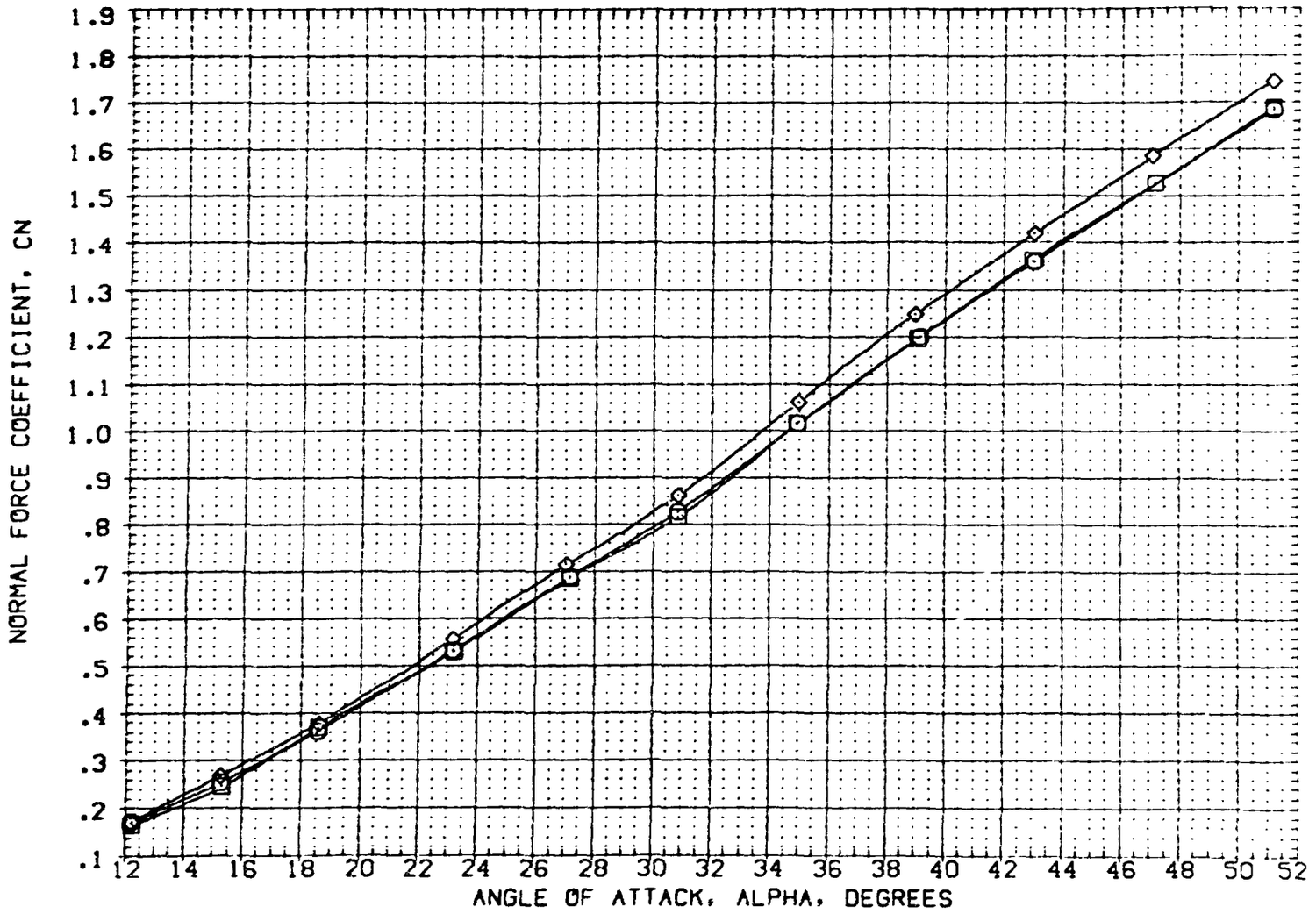


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

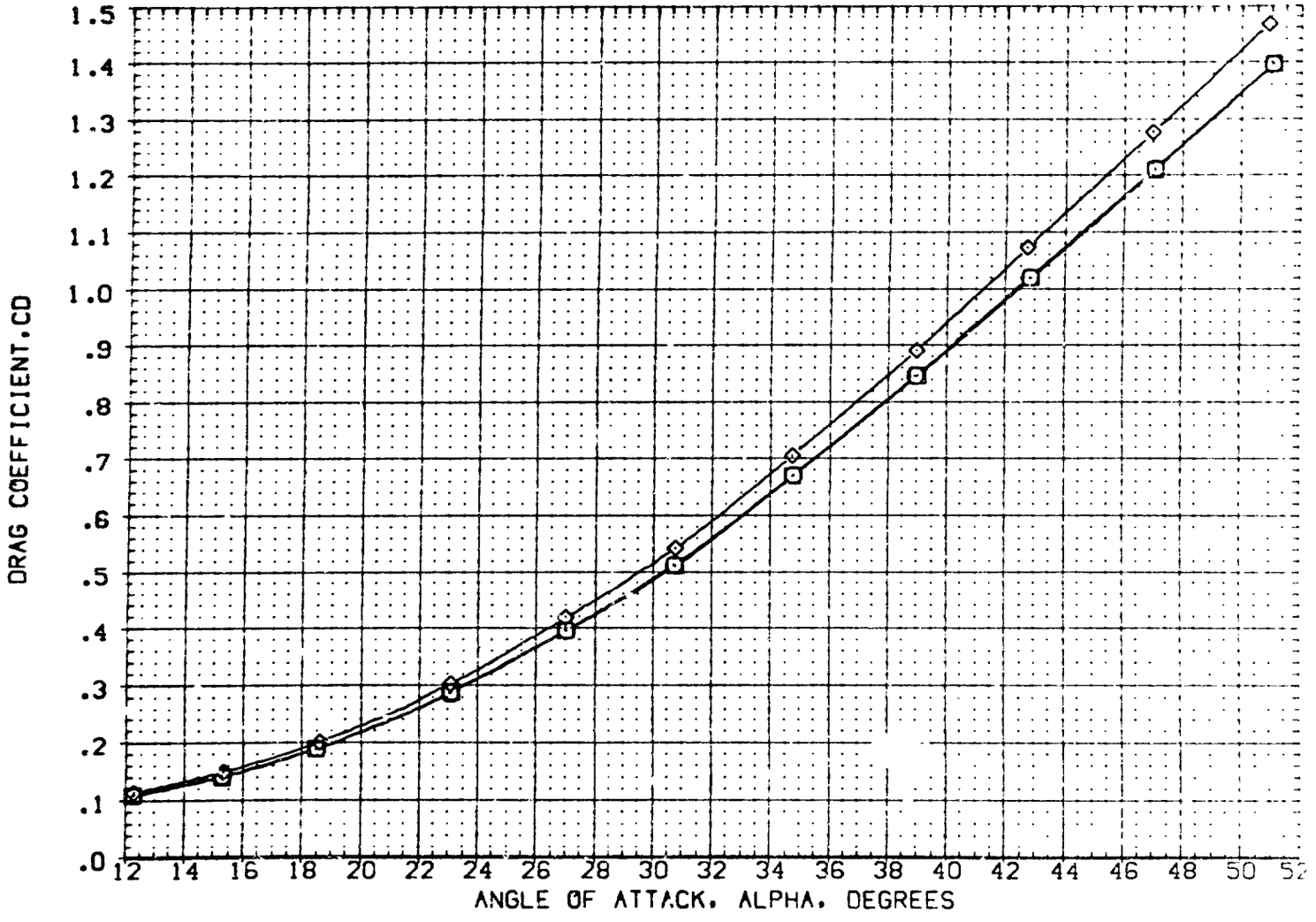


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

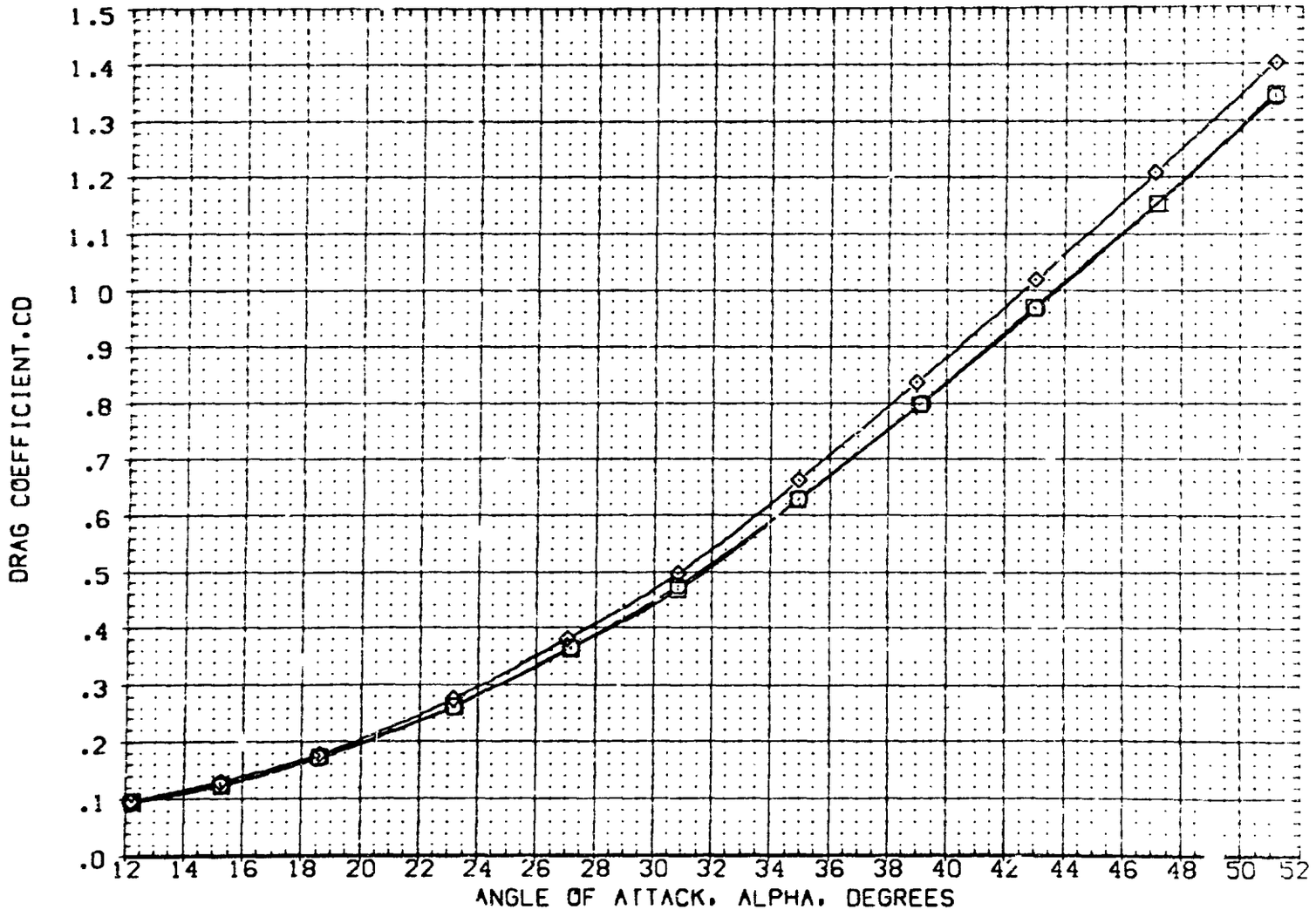


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

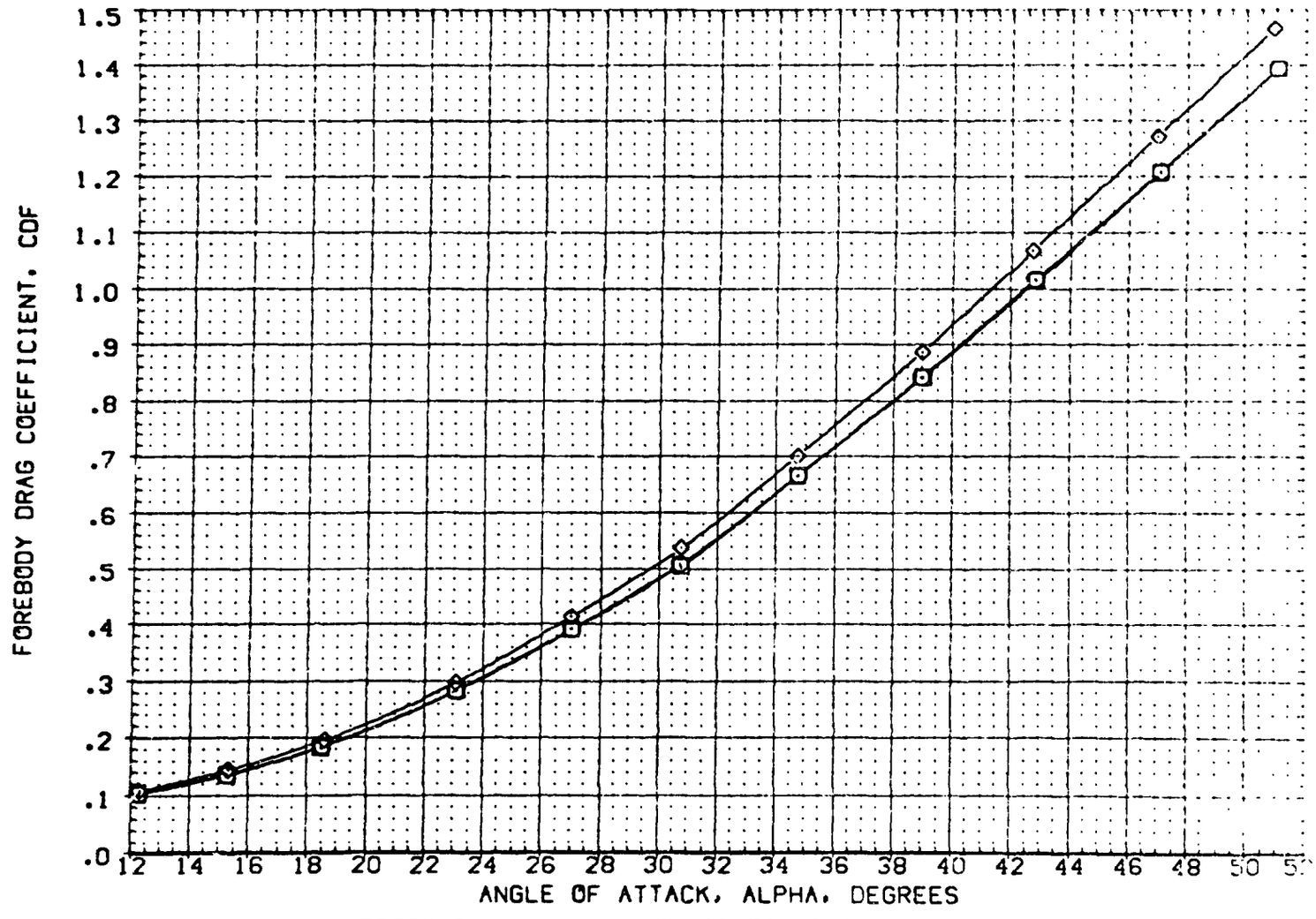


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-[illegible]8 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

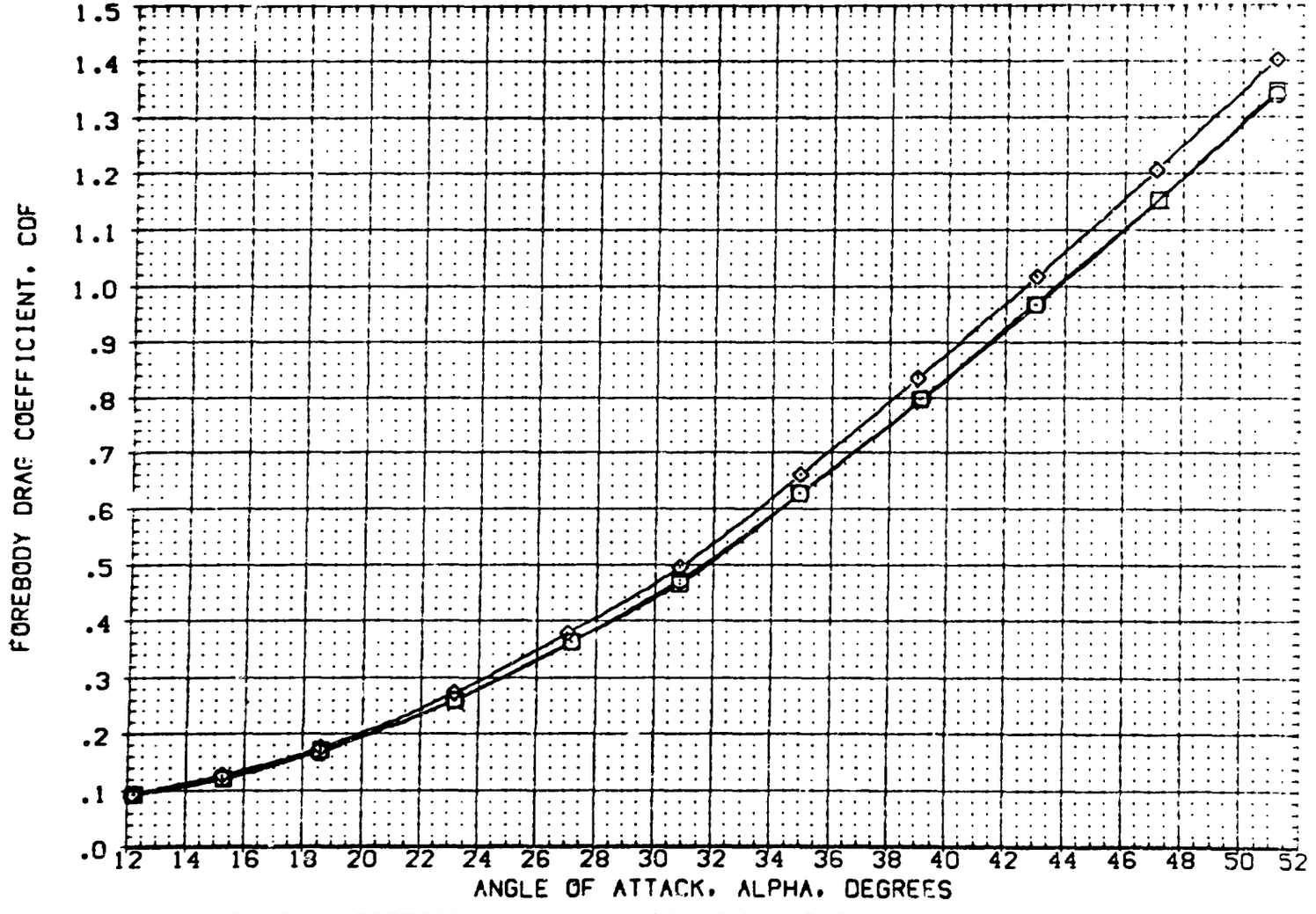


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V3 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

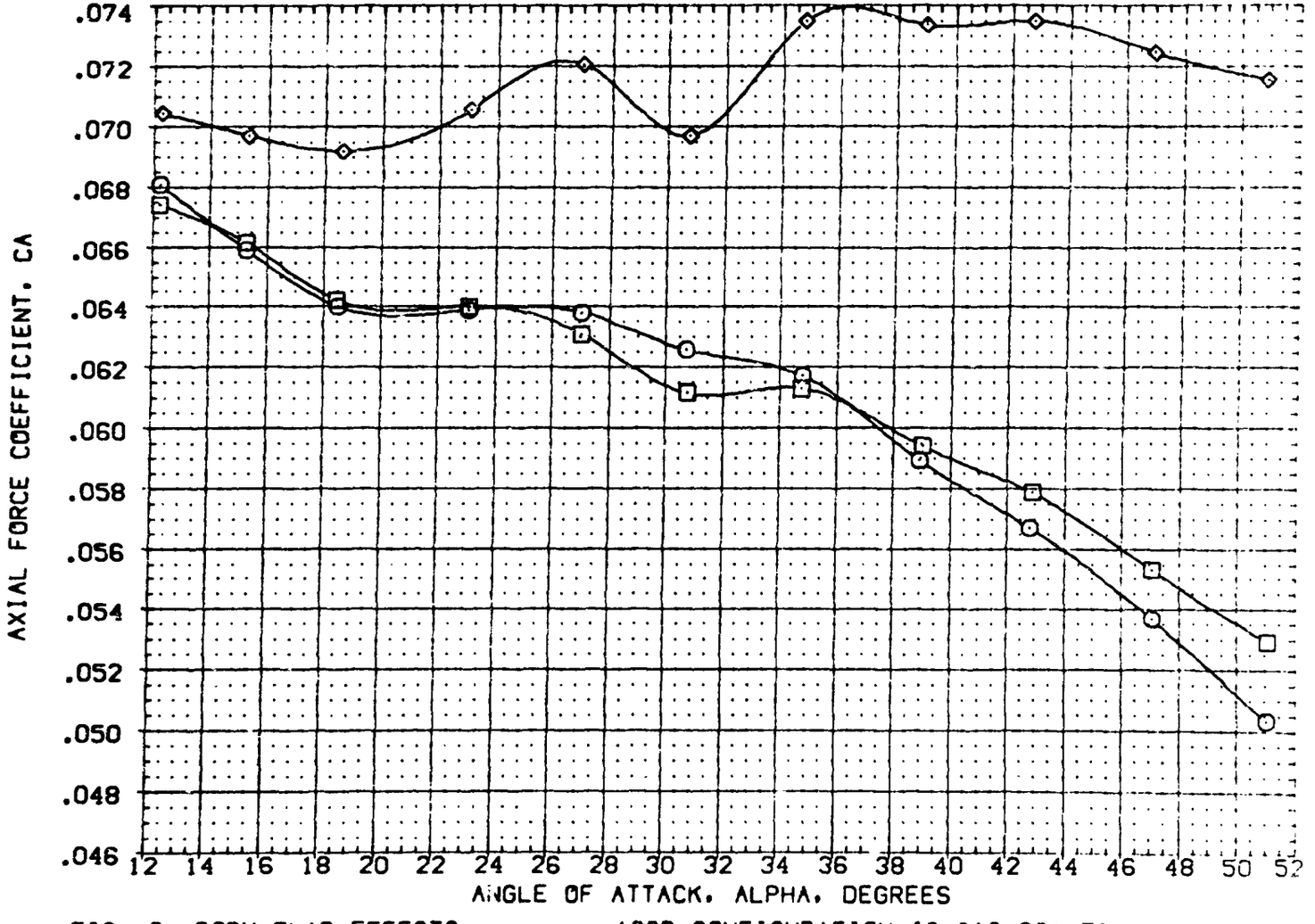


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	7690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

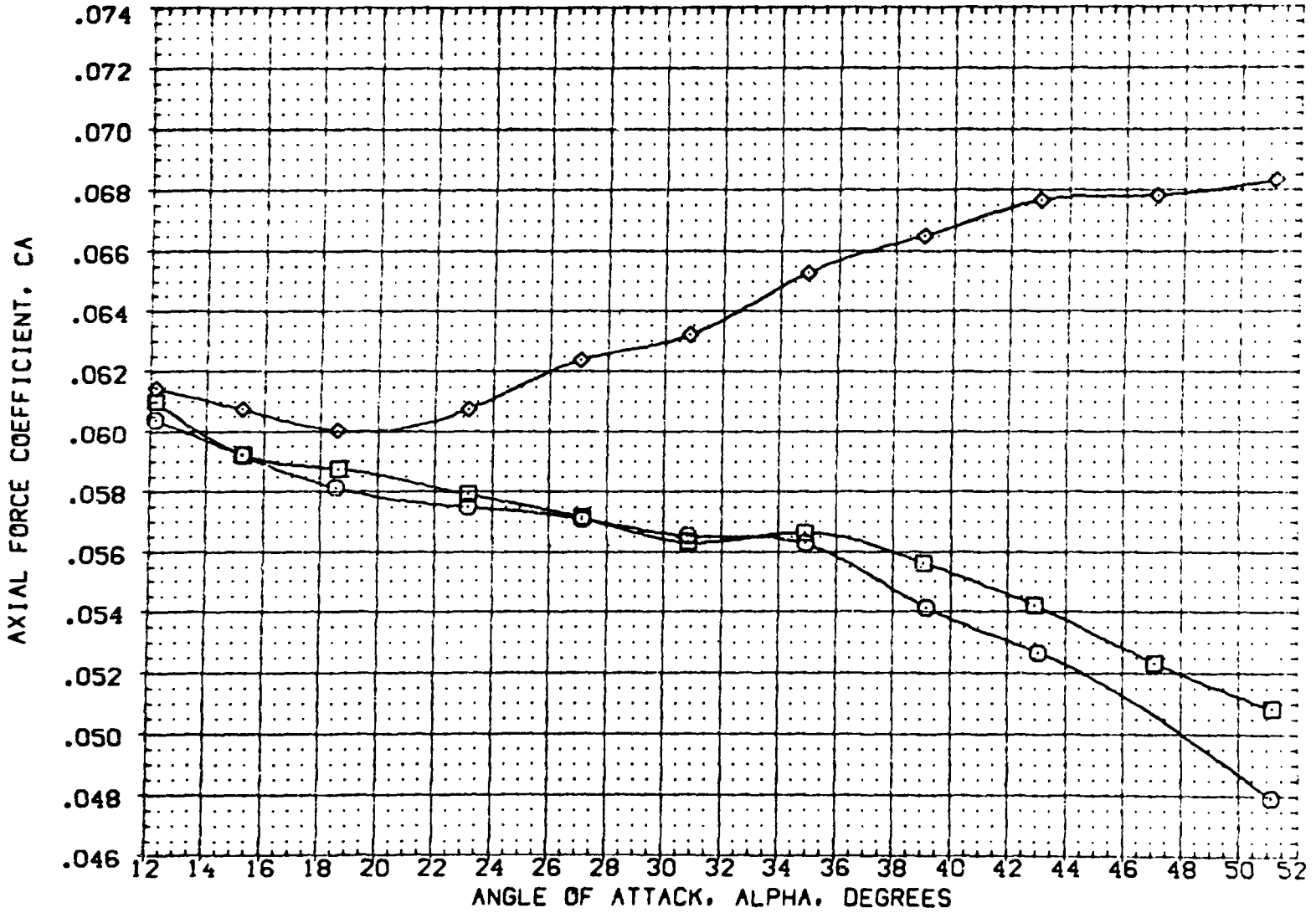


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.F
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

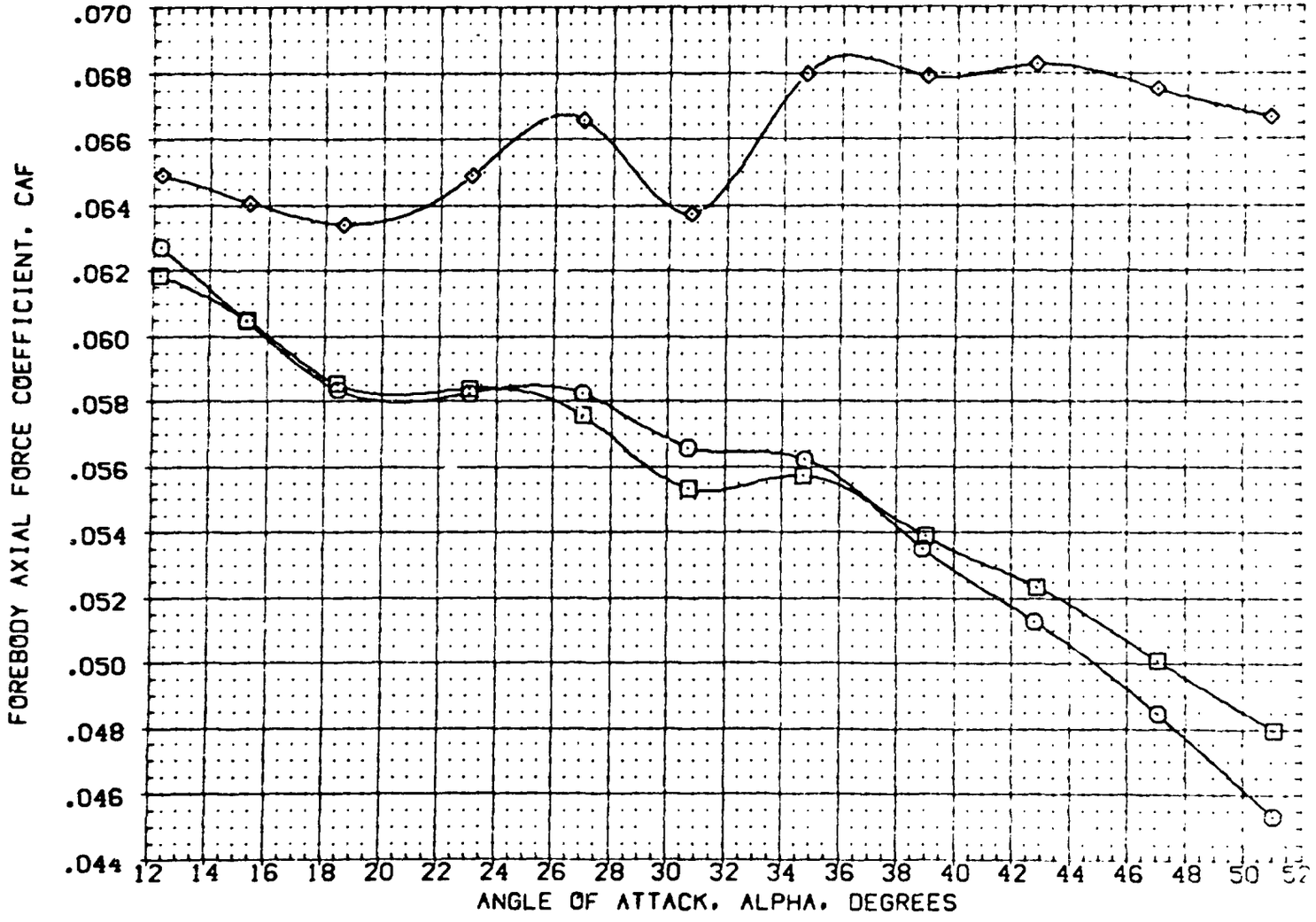


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

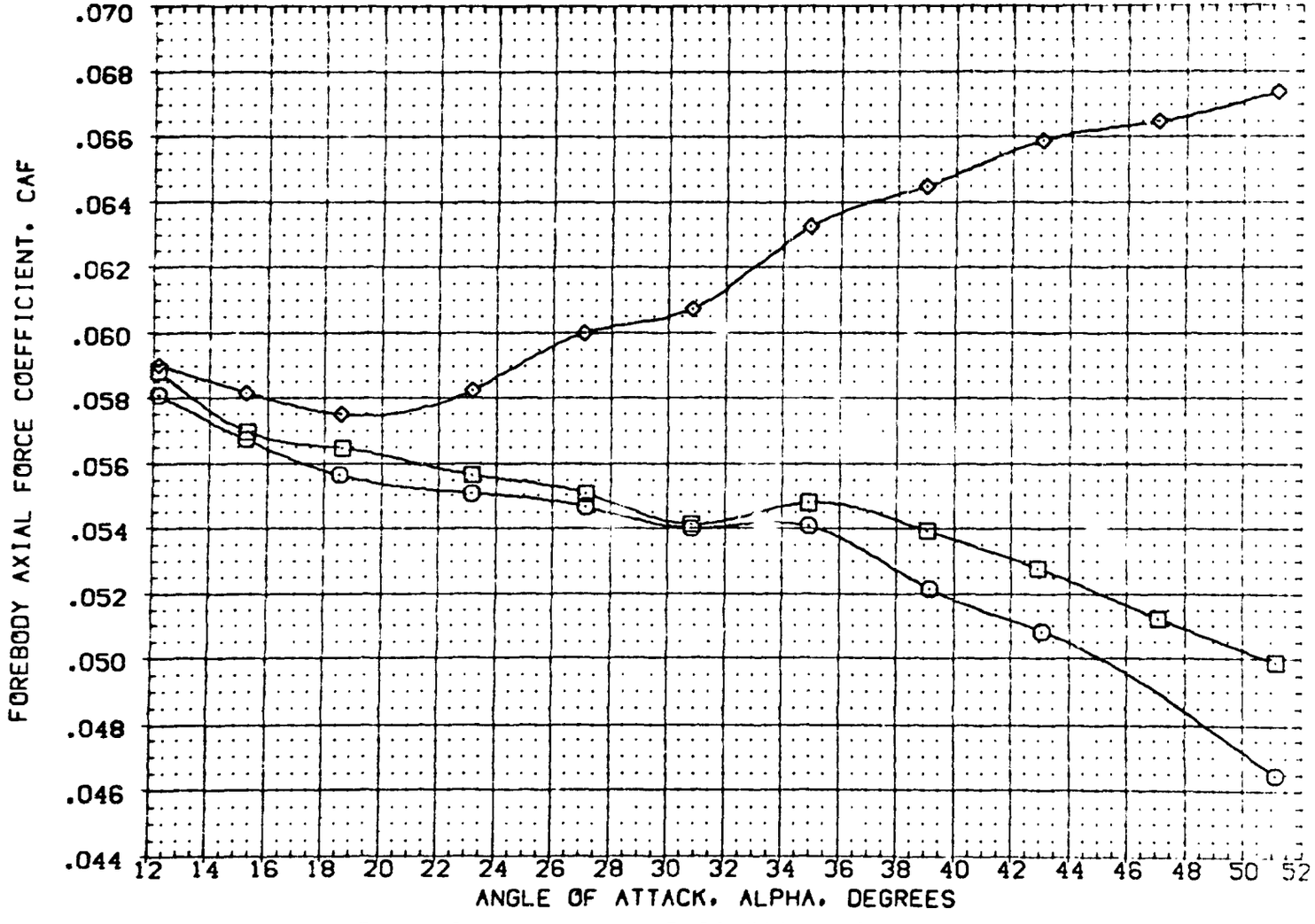


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012) ○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010) □	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.00	.000
(CB6011) ◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.F
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

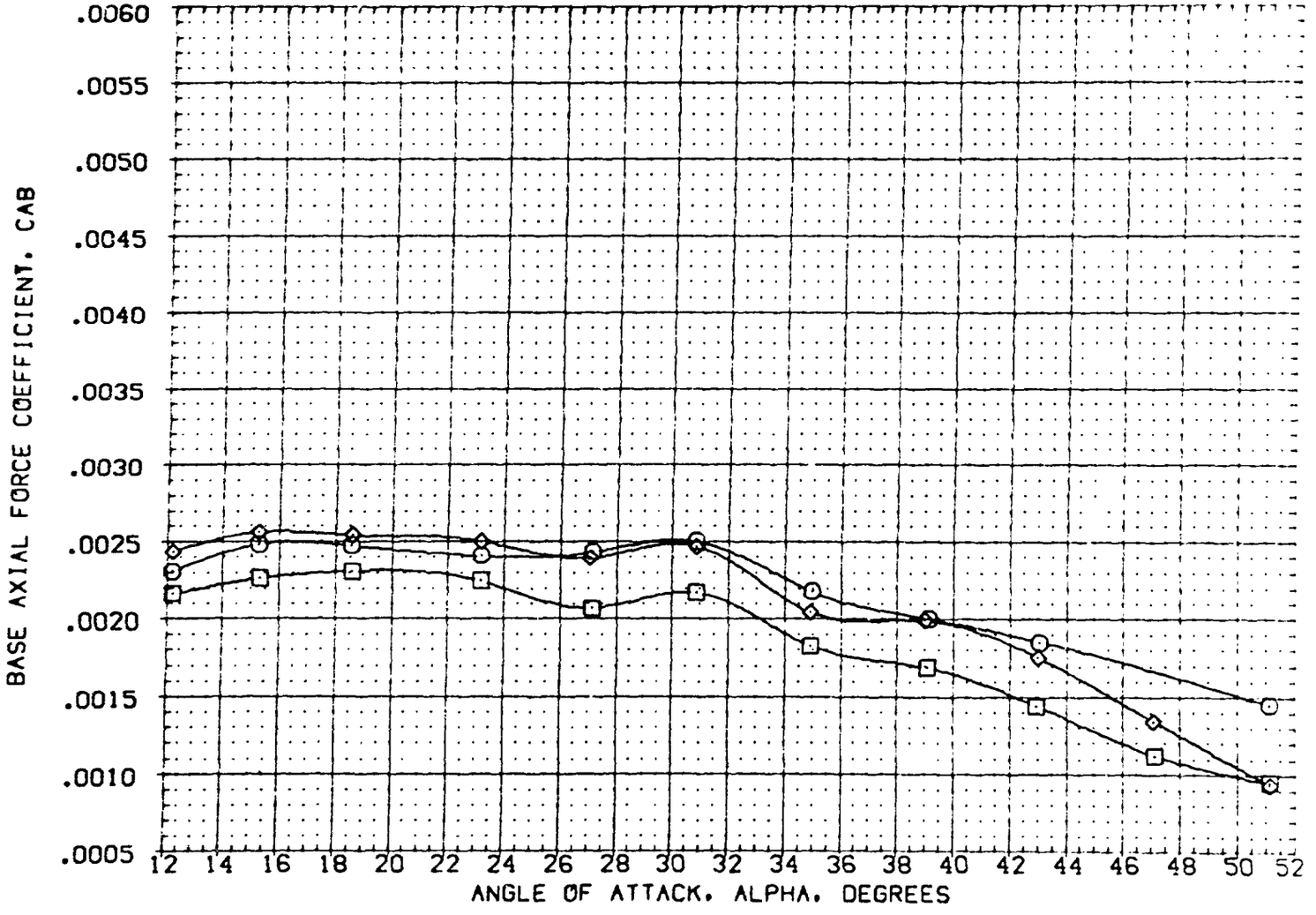


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
	1076.4800	IN.
	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

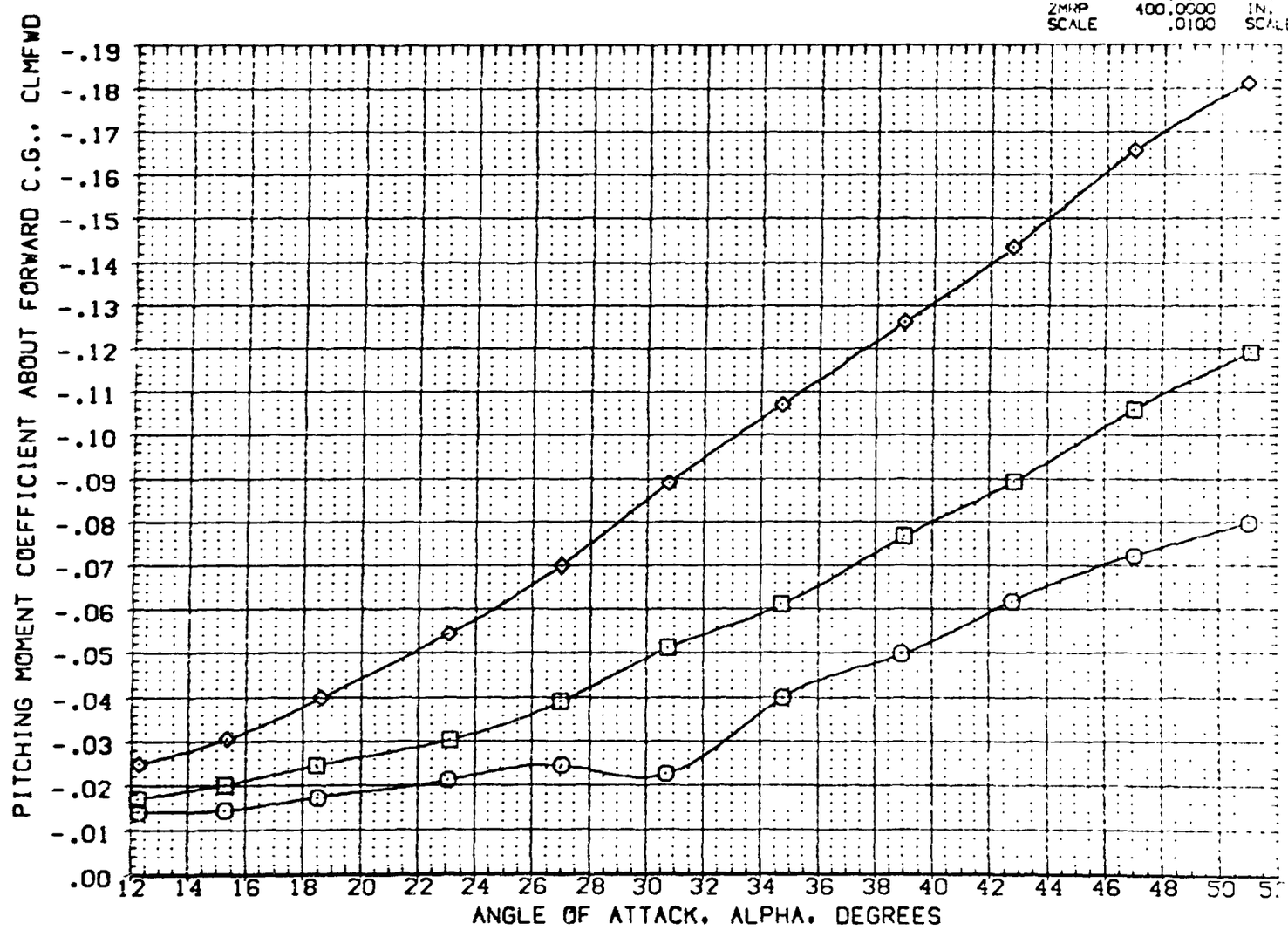


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

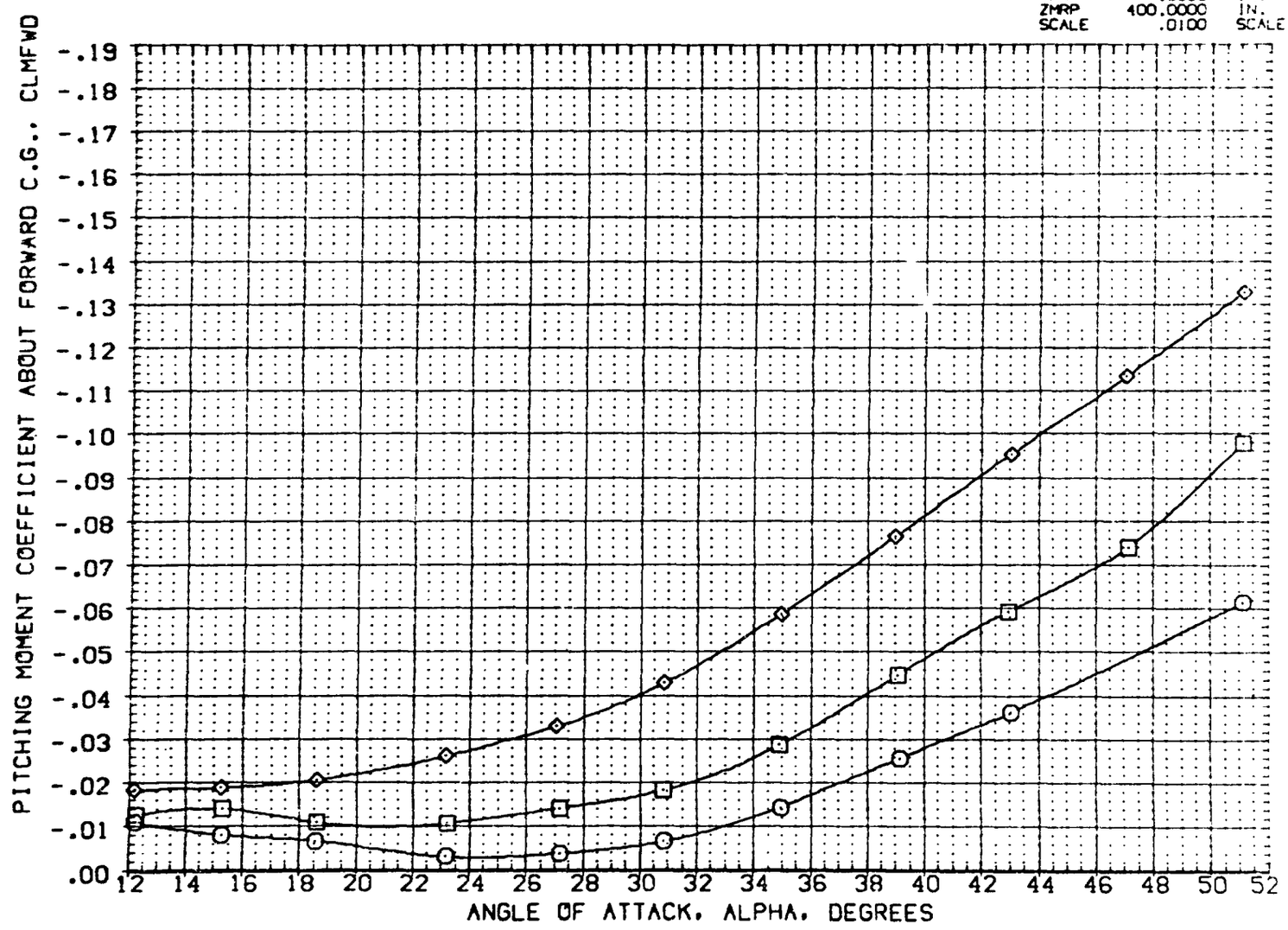


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

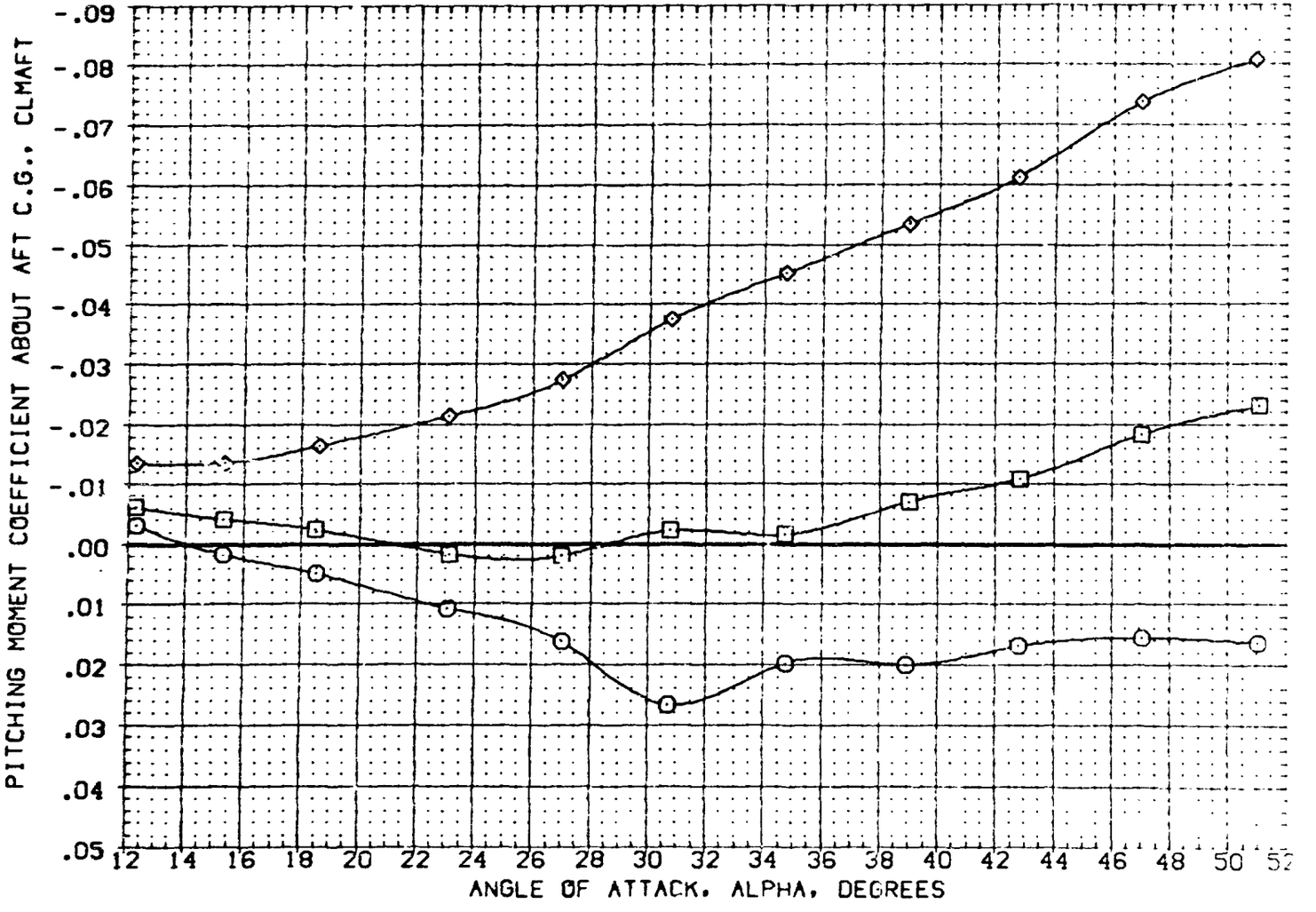


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

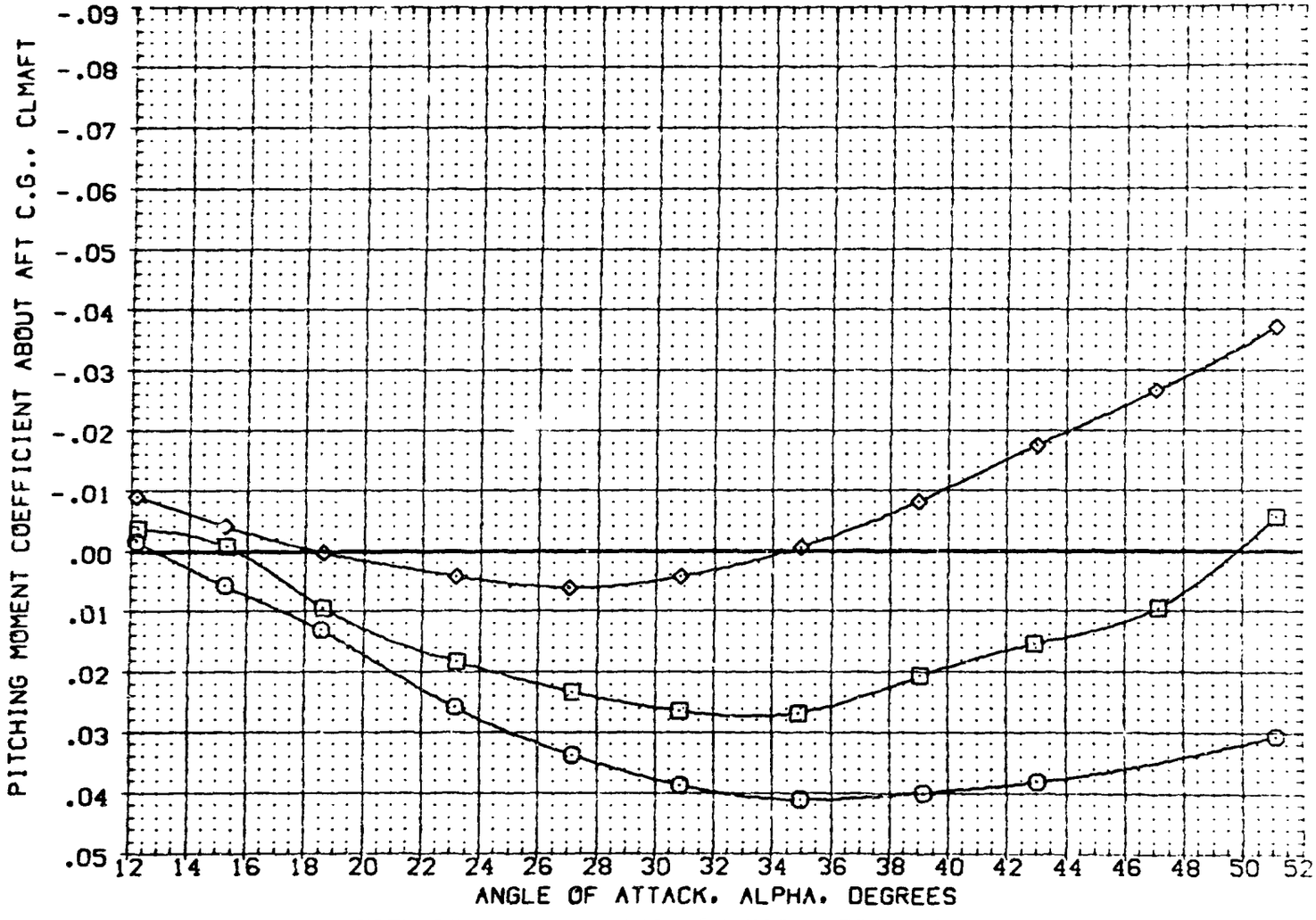


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

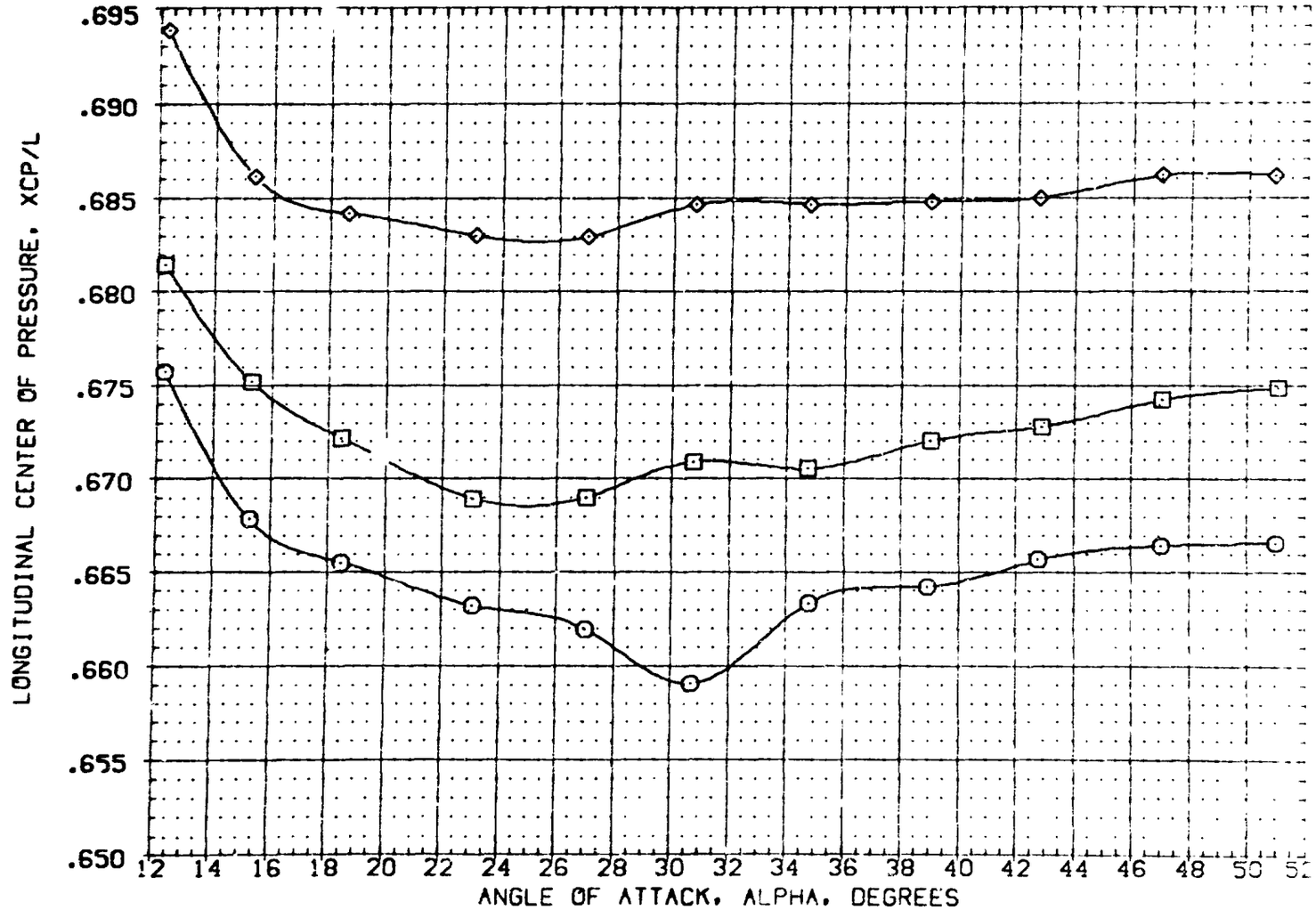


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

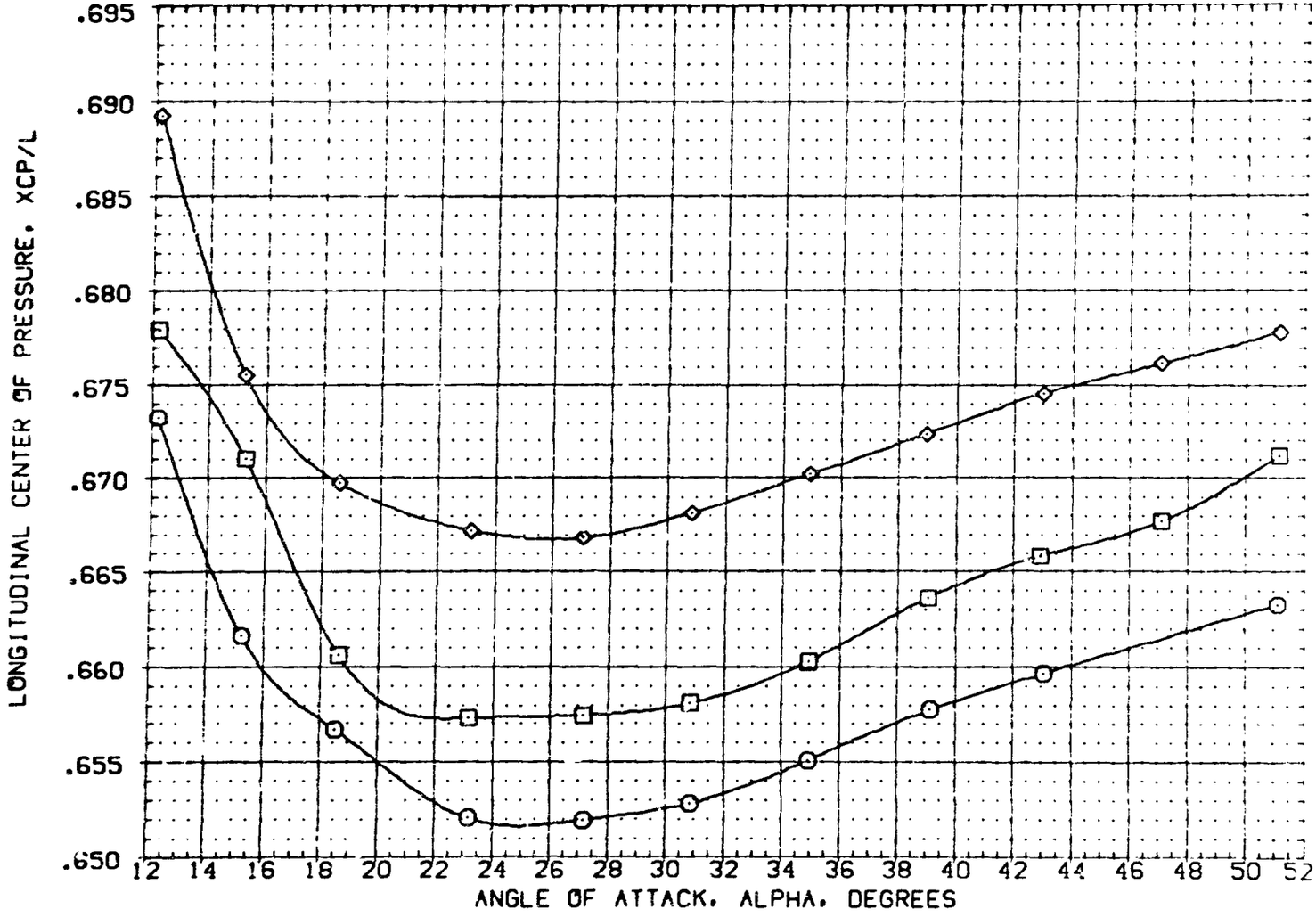


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(BB6012)	○	AMES3.5-168 0A2₃ B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(BB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(BB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6[illegible]0	IN.
XMRP	1076.1[illegible]00	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

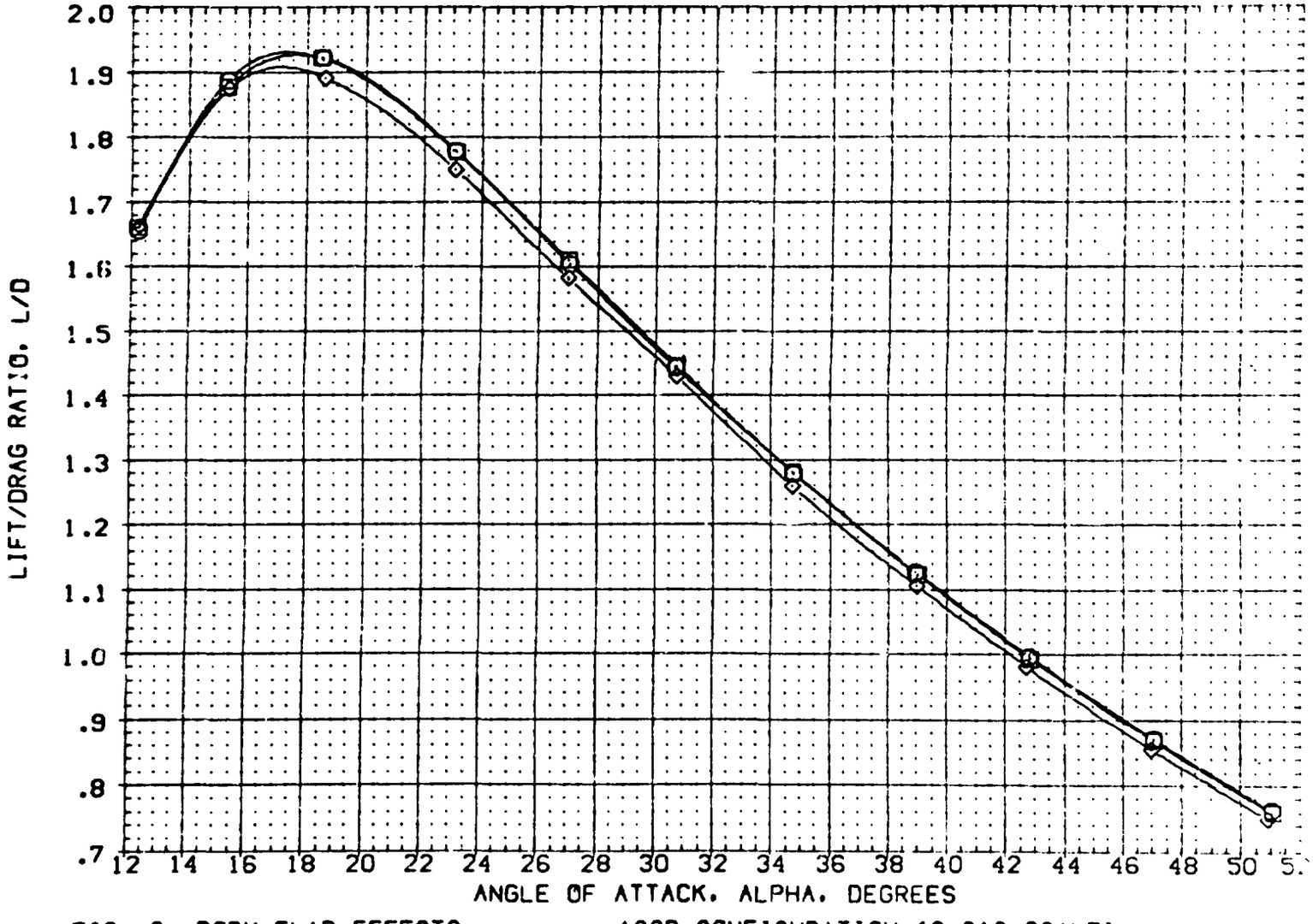


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(B86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 .07	.000	-14.250	55.000	.000
(B86010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(B86011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	[illegible]

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.9000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

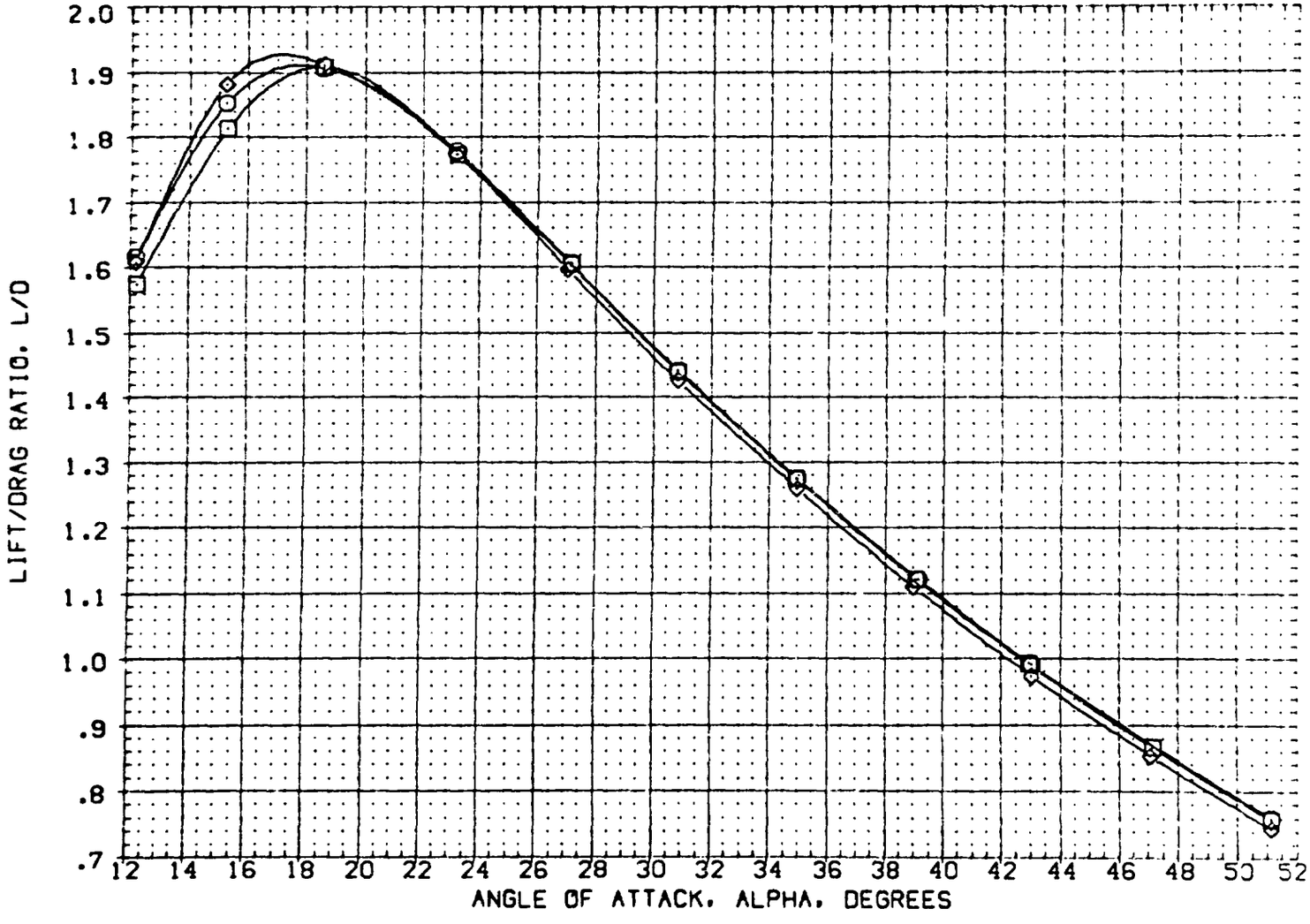


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

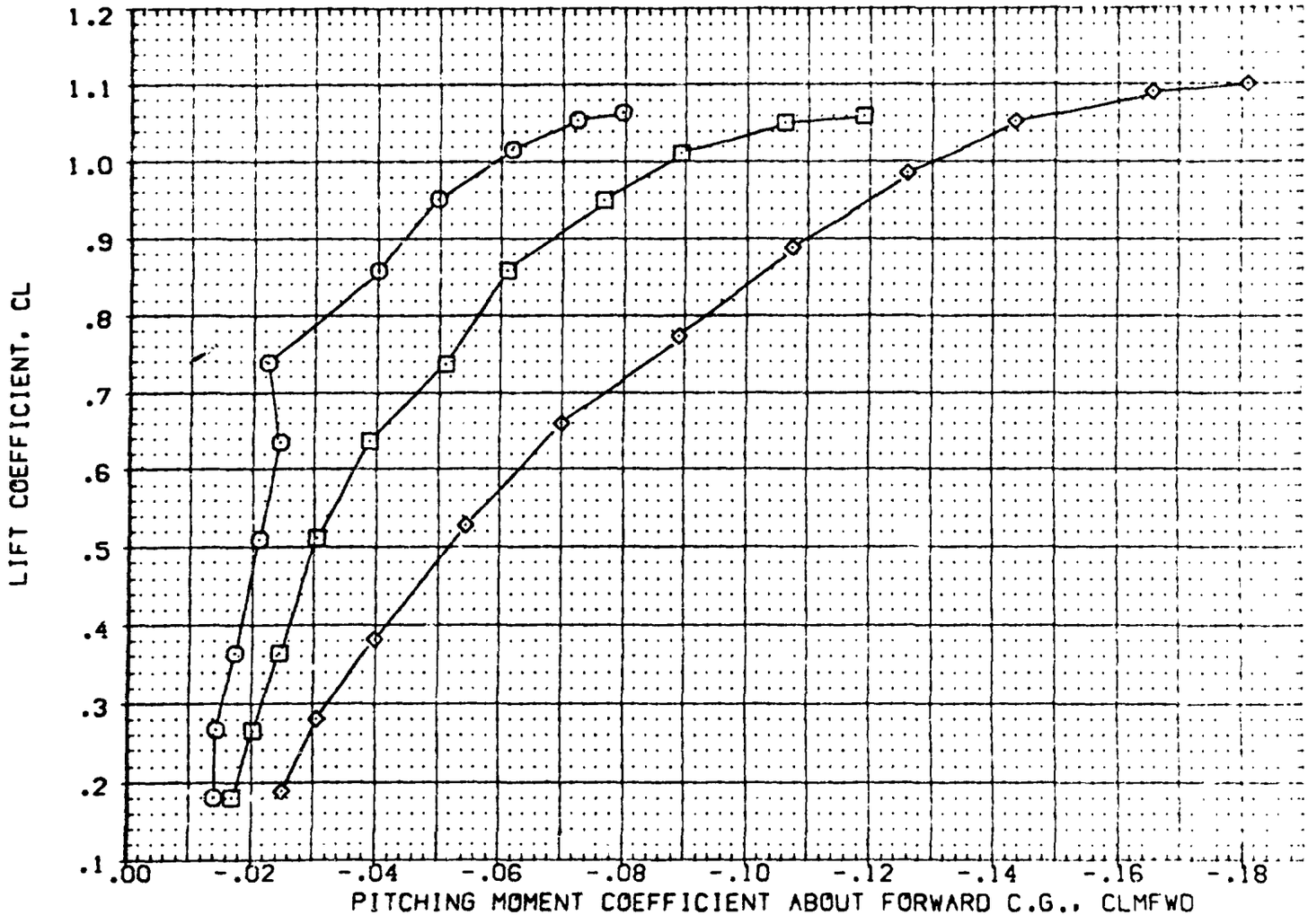


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

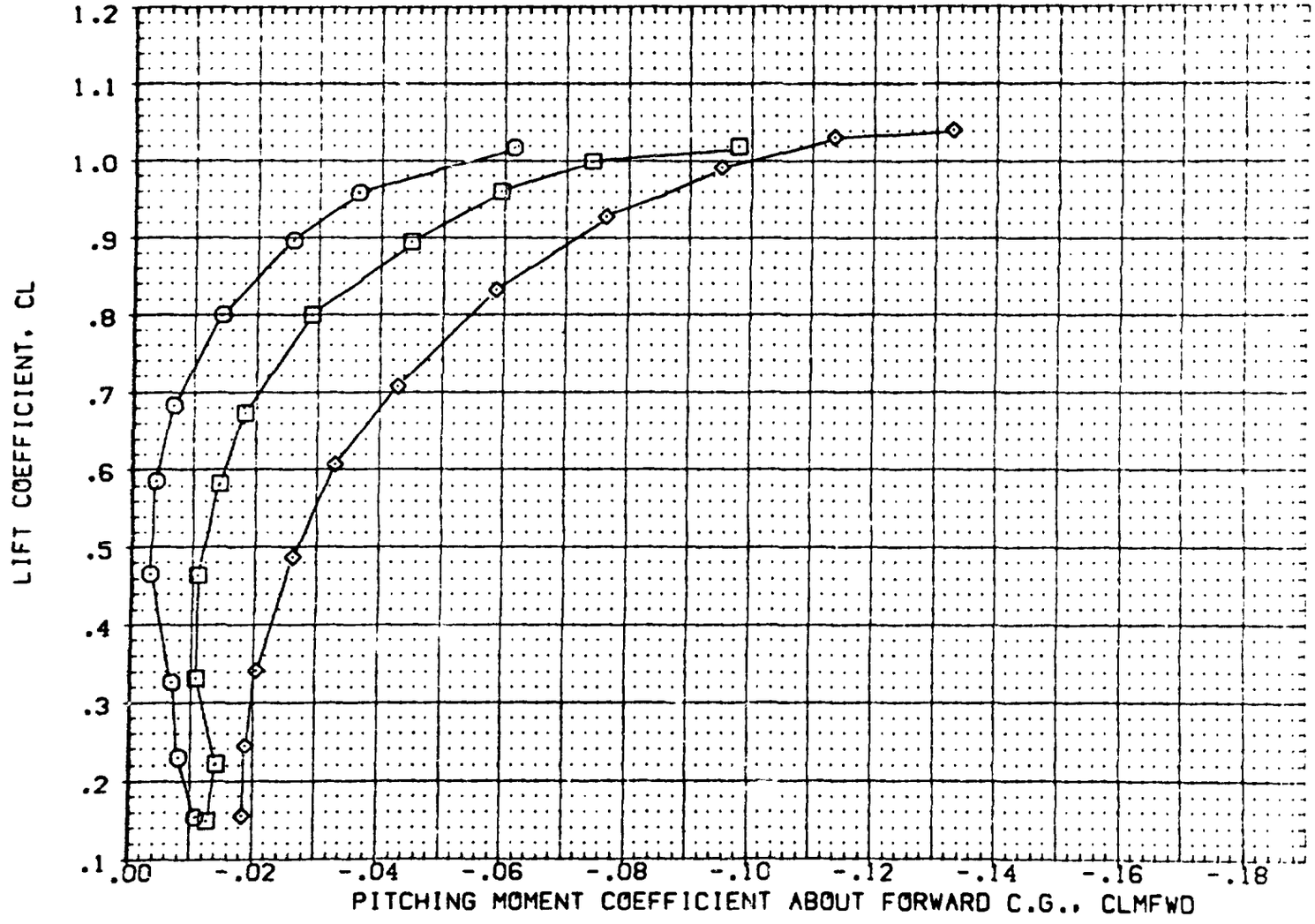


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

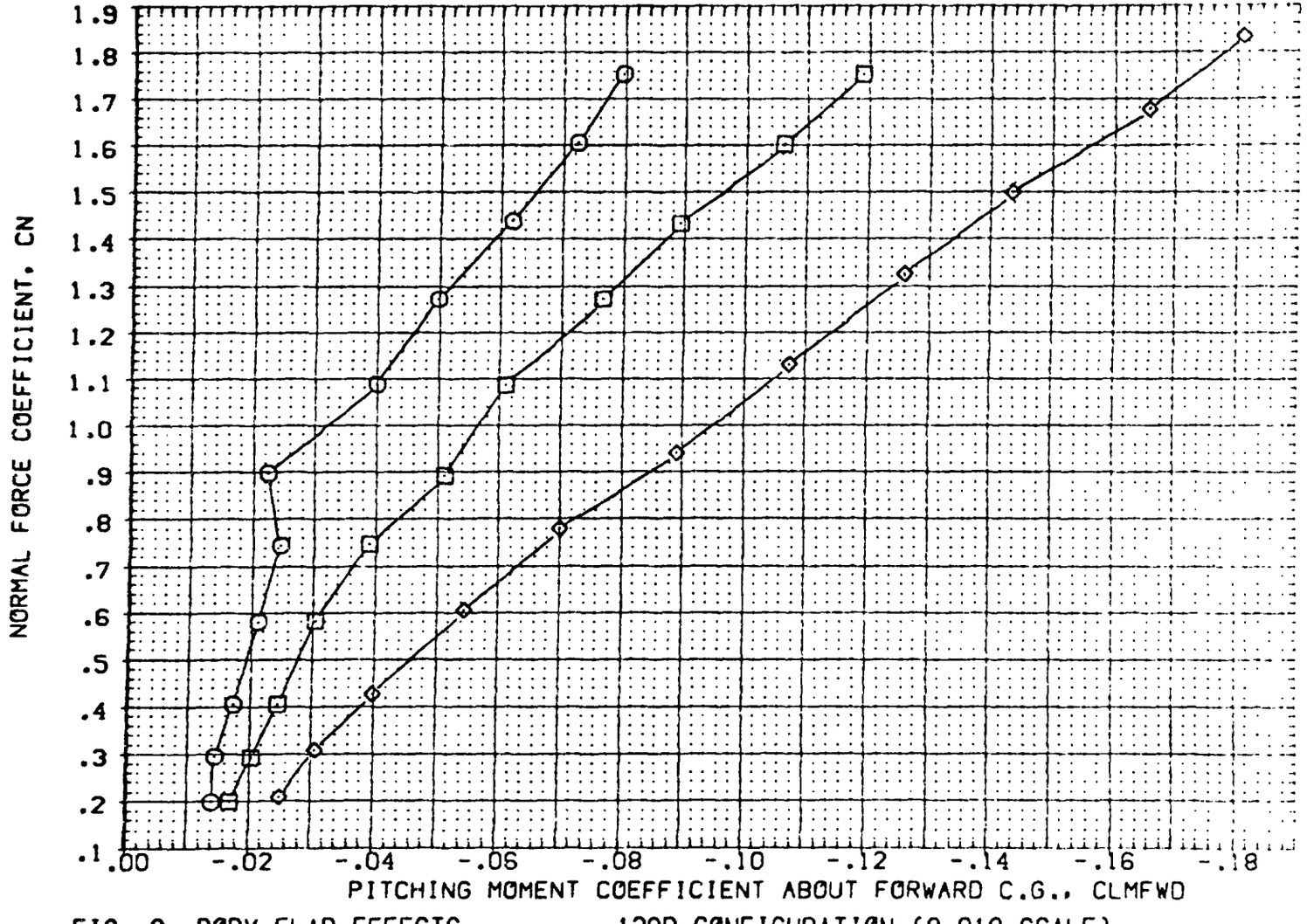


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

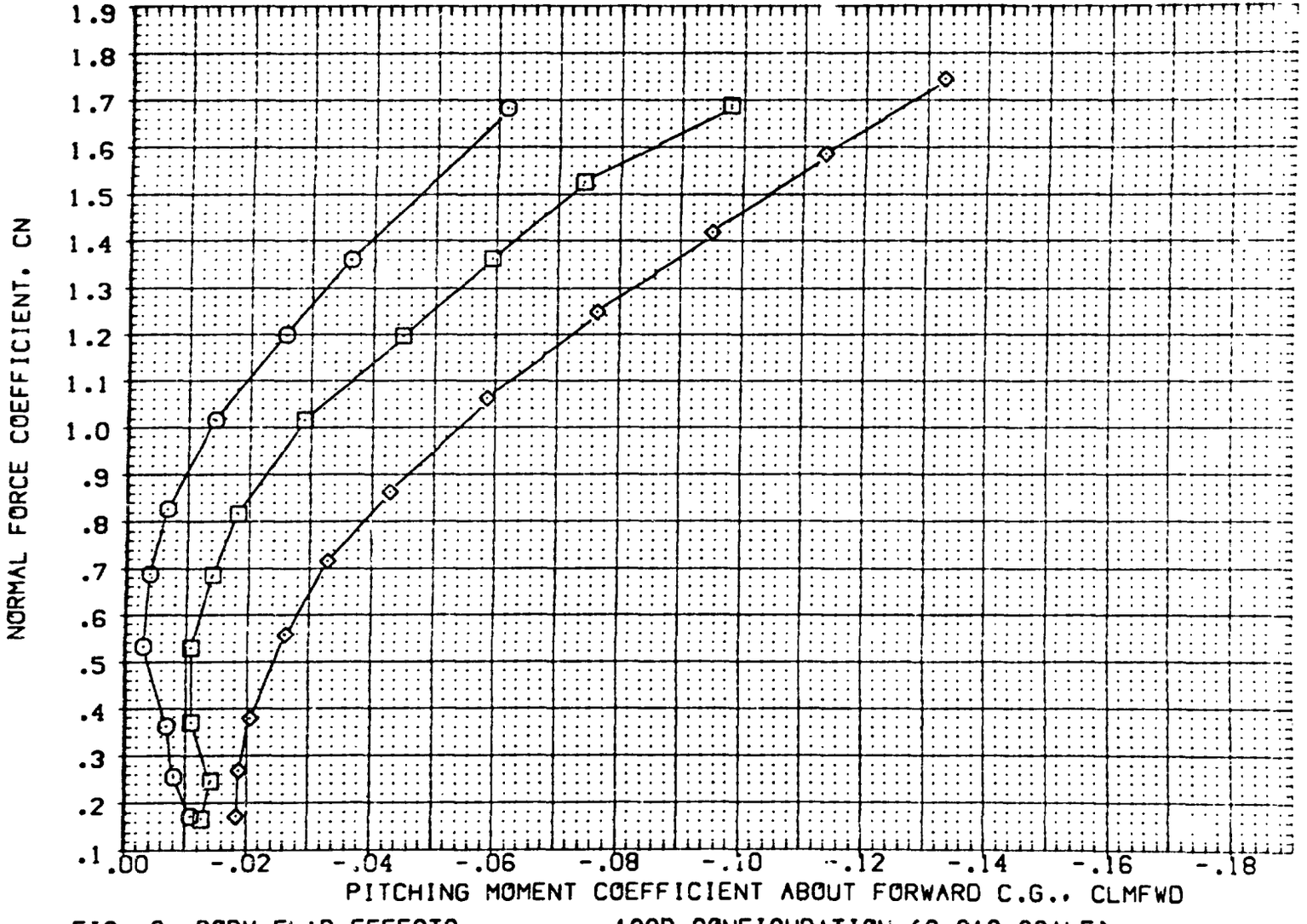


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.F
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

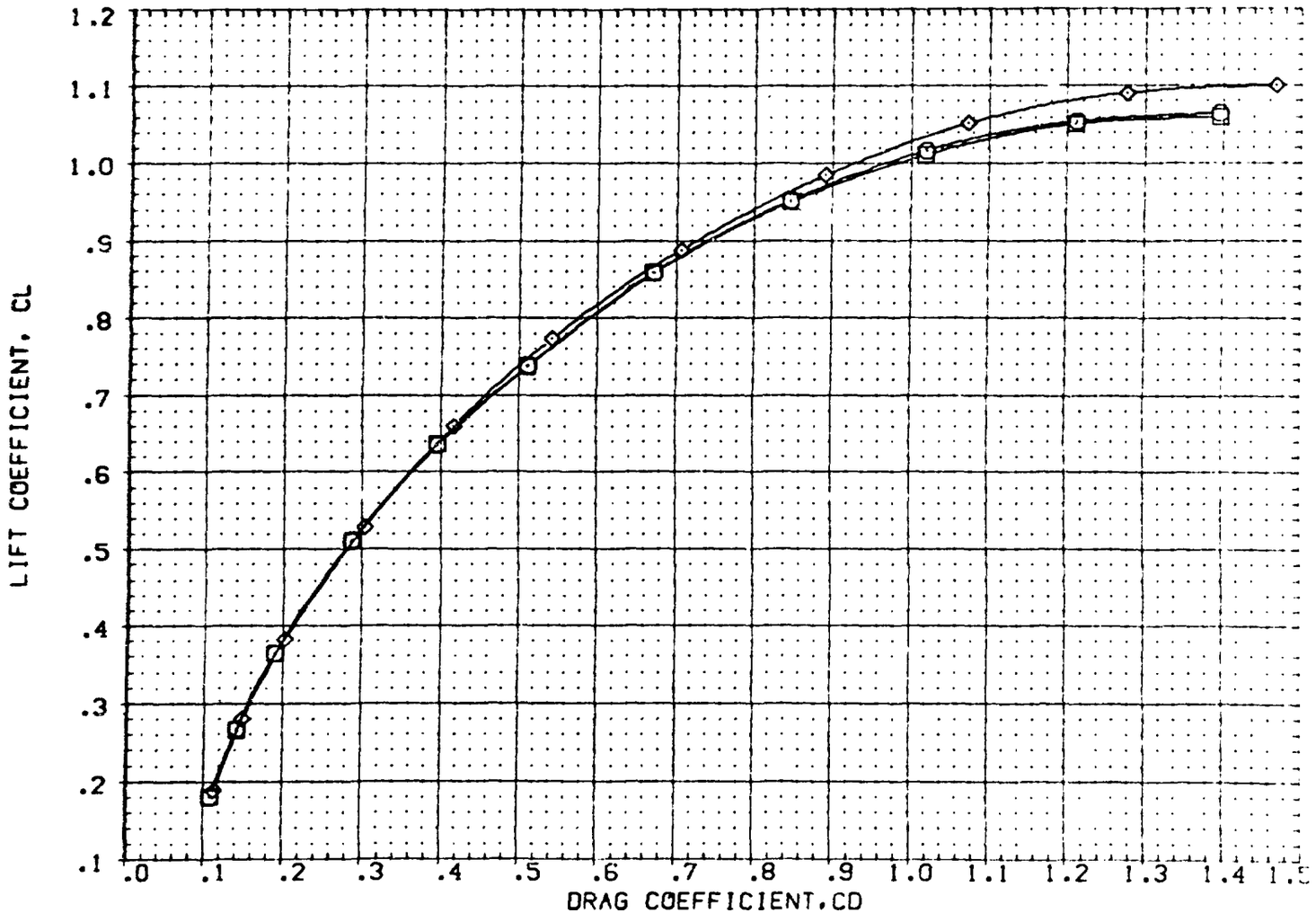


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(CB6010)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	.000
(CB6011)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

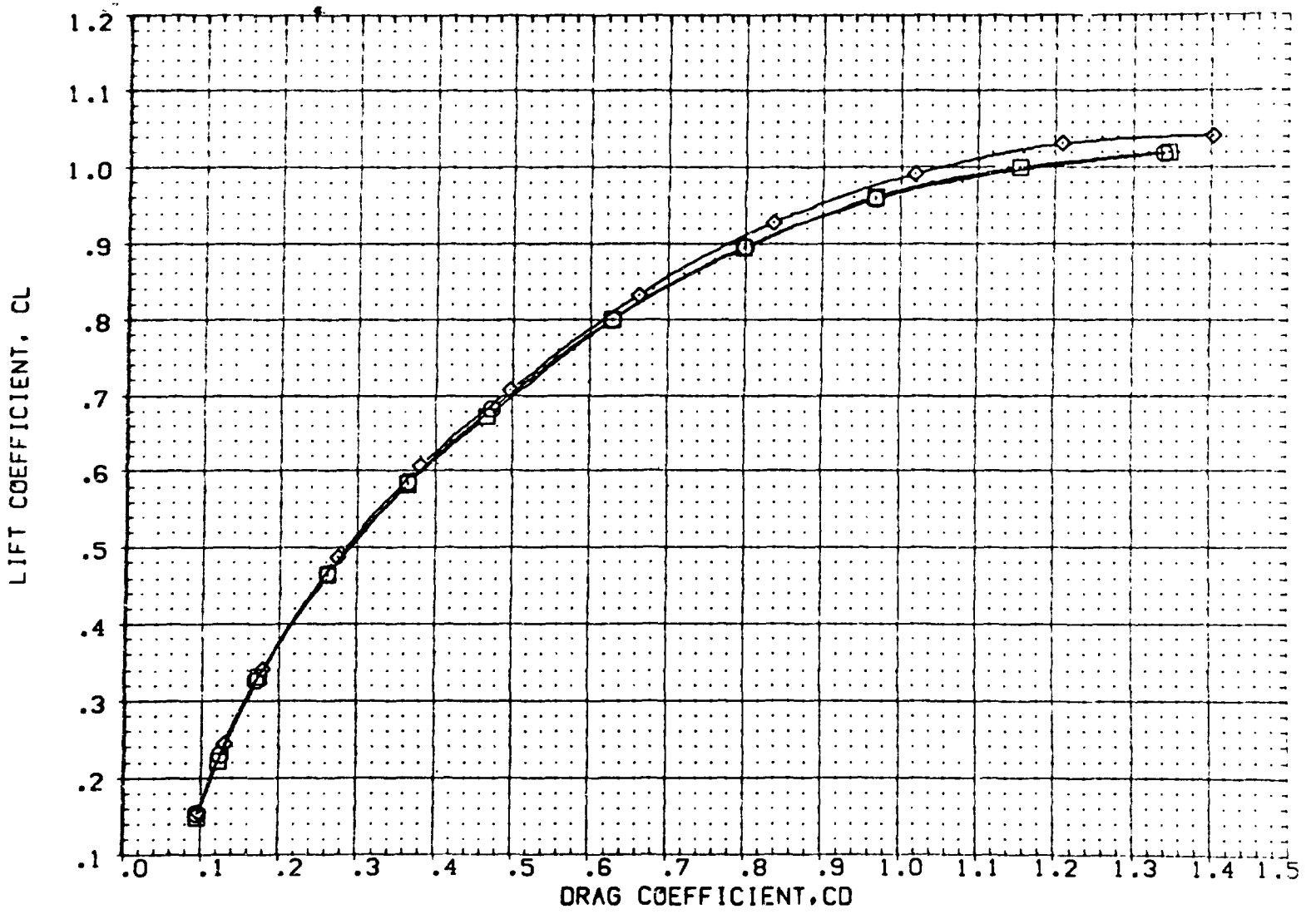


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(286018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(C86017)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(C86016)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

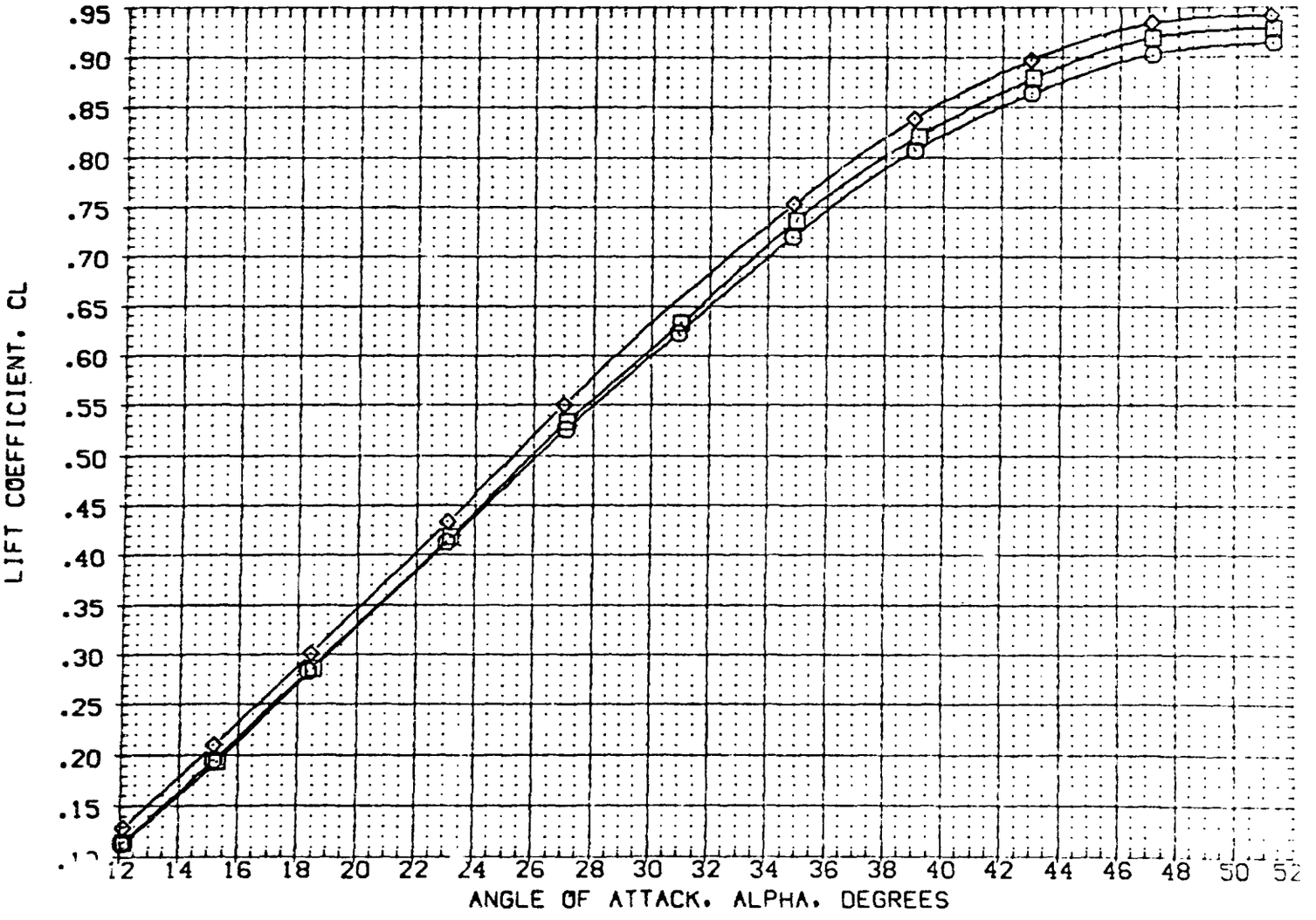


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(286018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(286017)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(286016)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

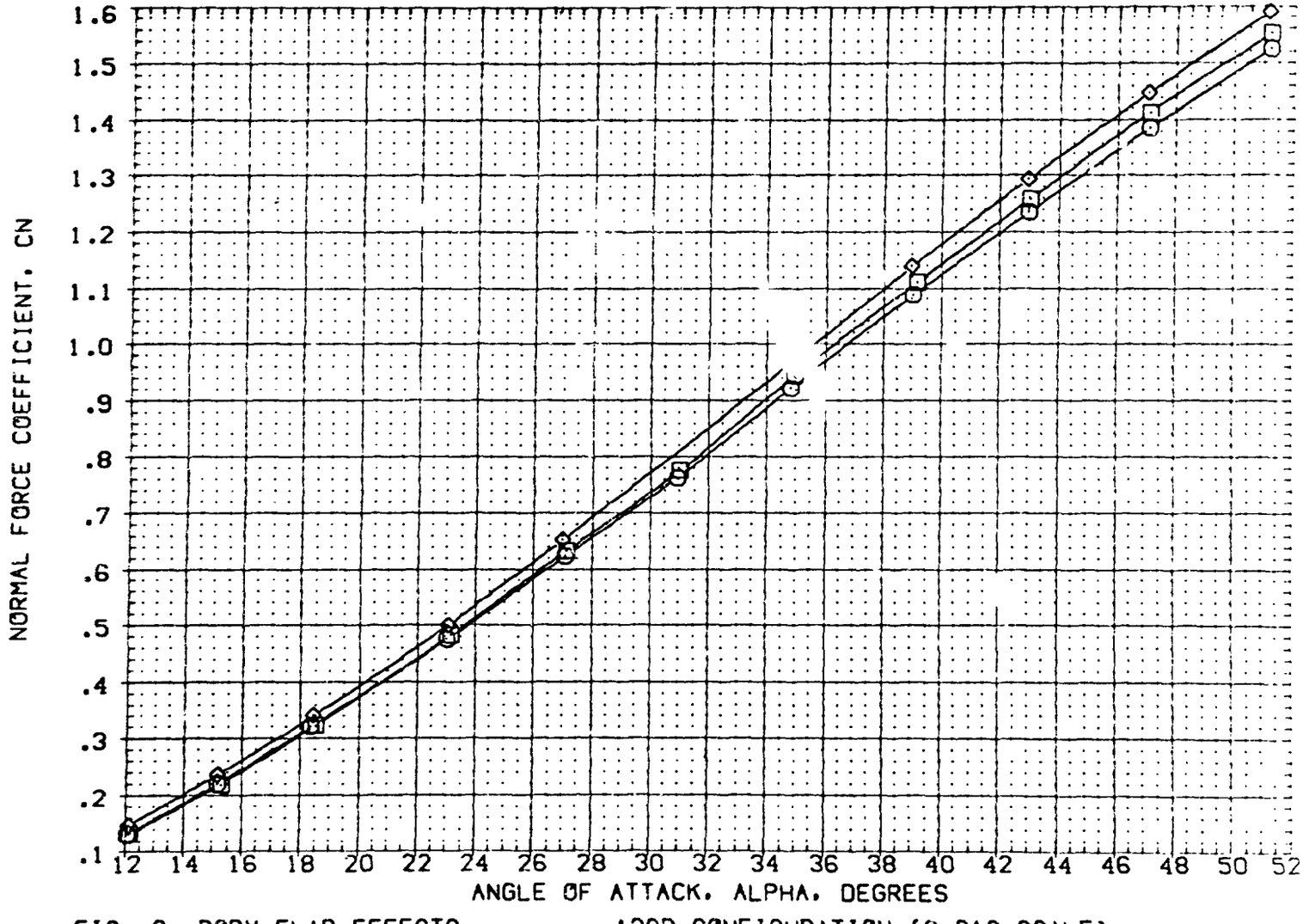


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(286018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(286017)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(286016)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

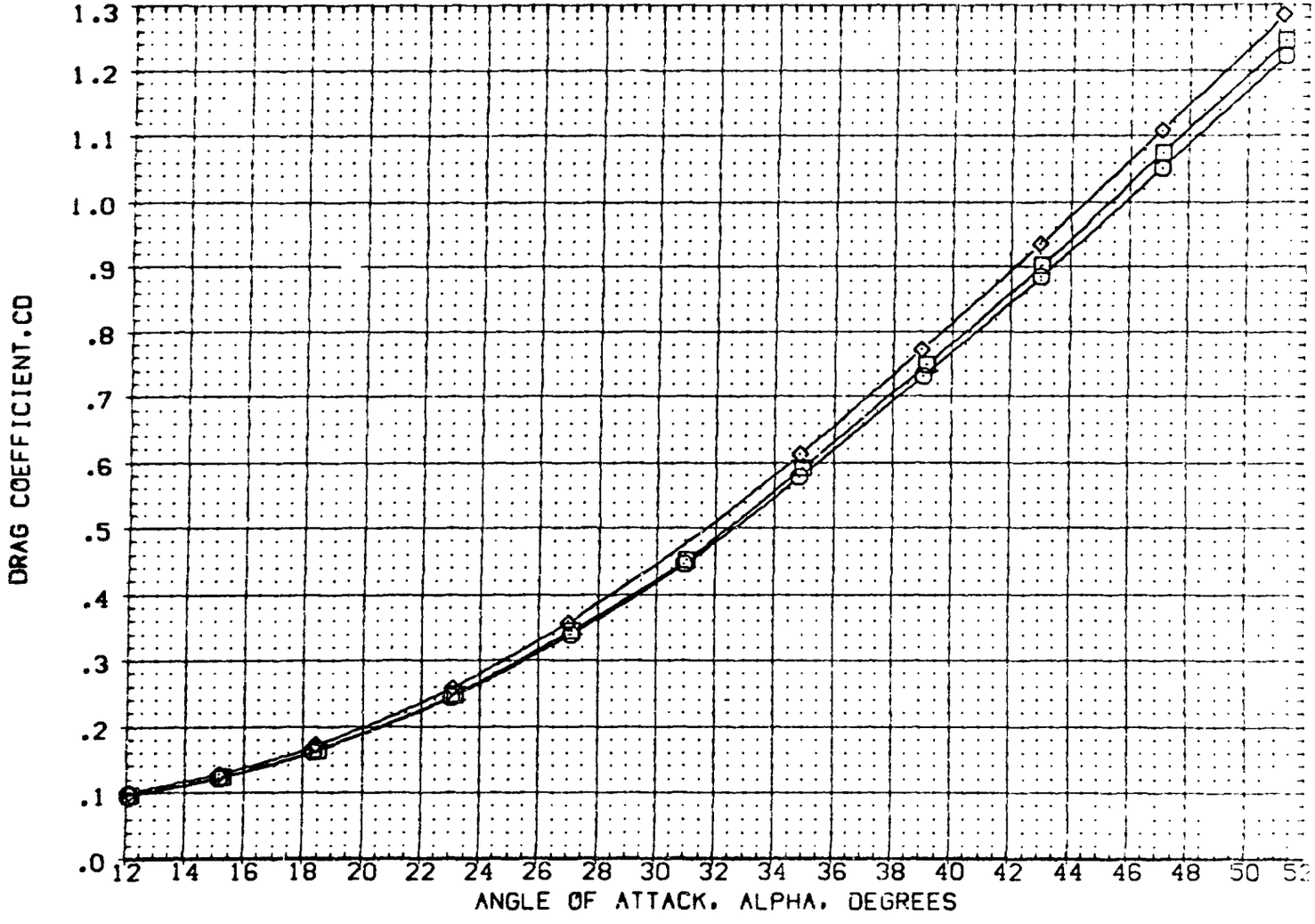


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(2860I8)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6017)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(CB6016)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

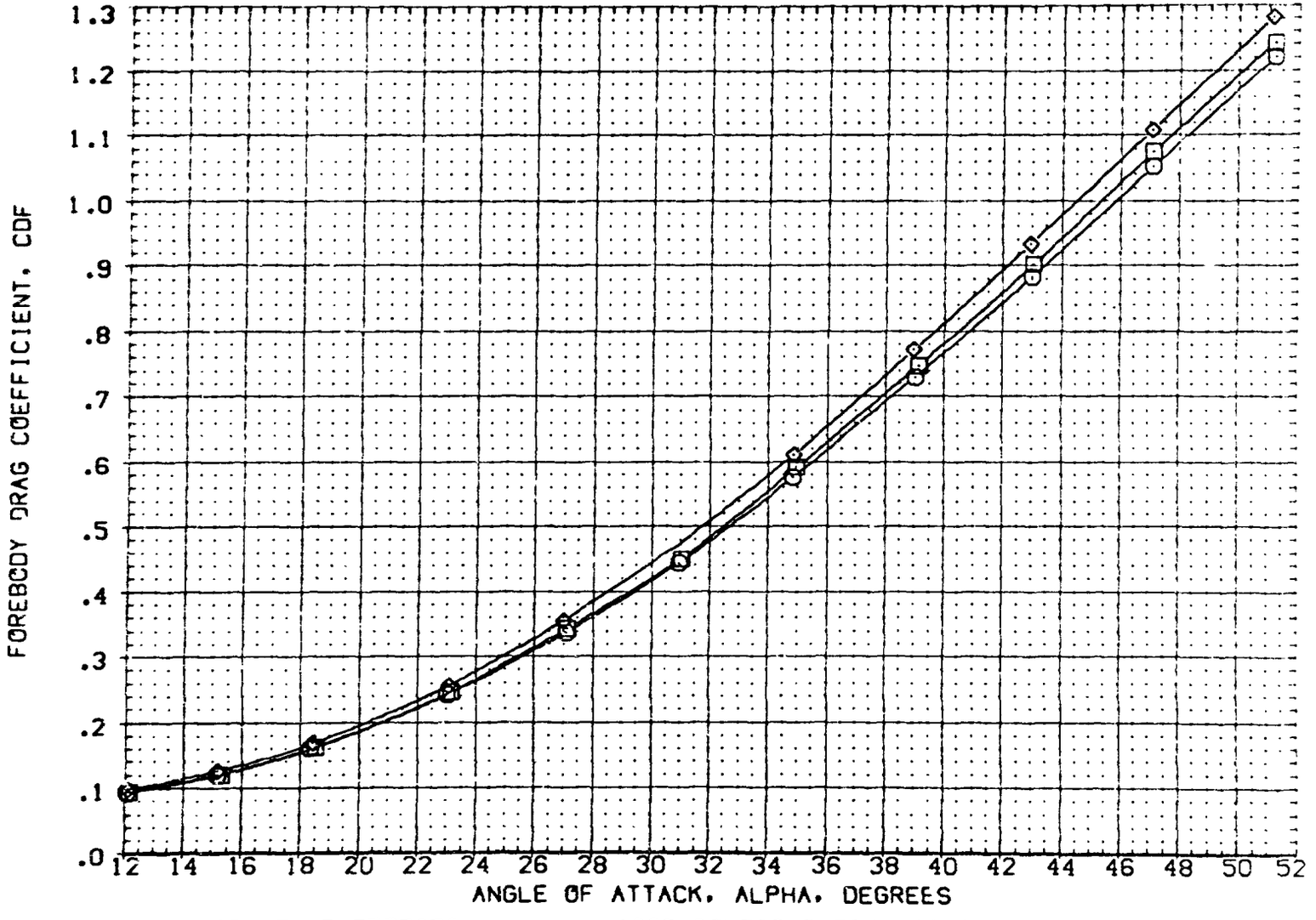


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(286018)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(CB6017)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(CB6016)	◇	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

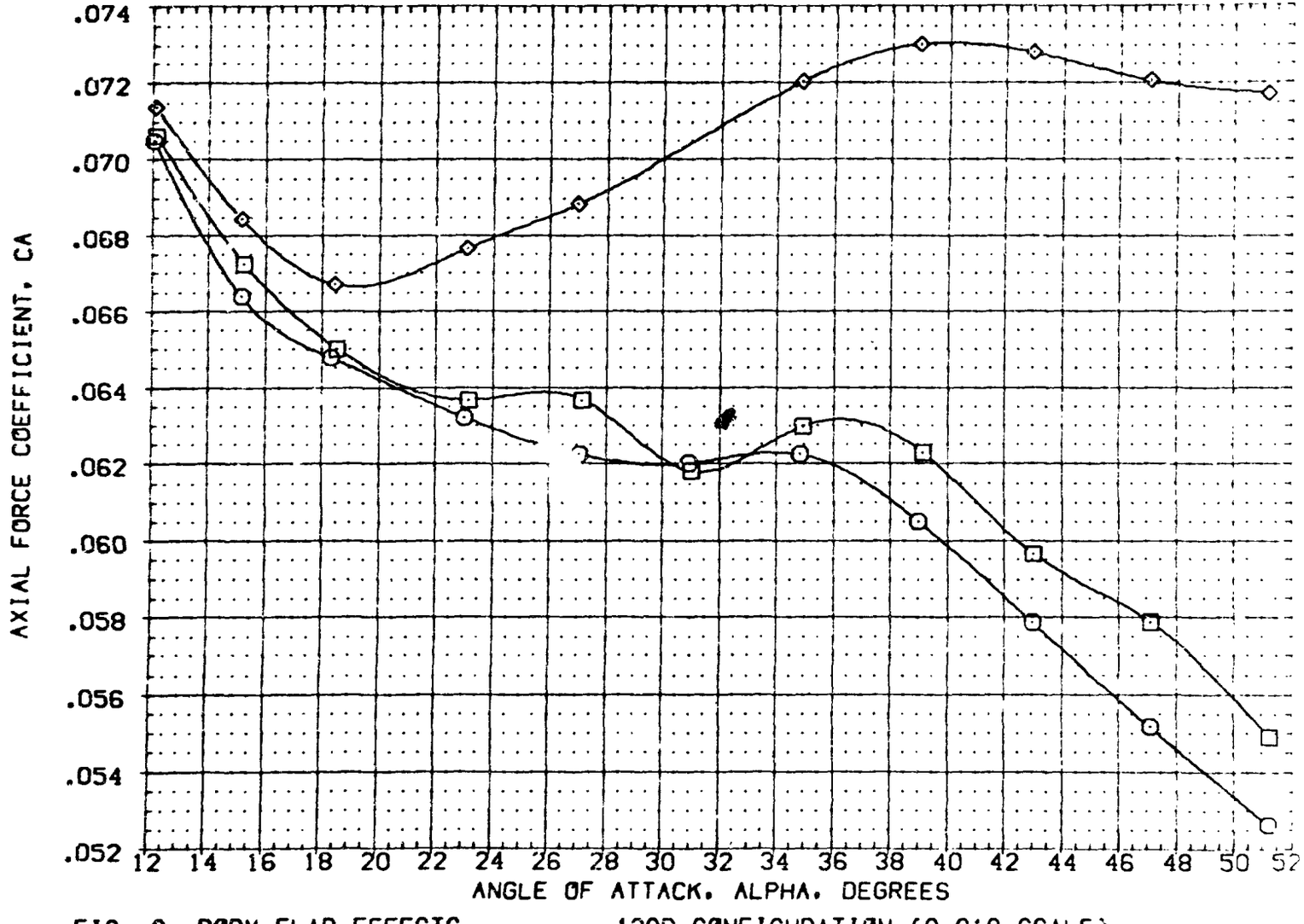


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(286018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(286017)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(286016)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

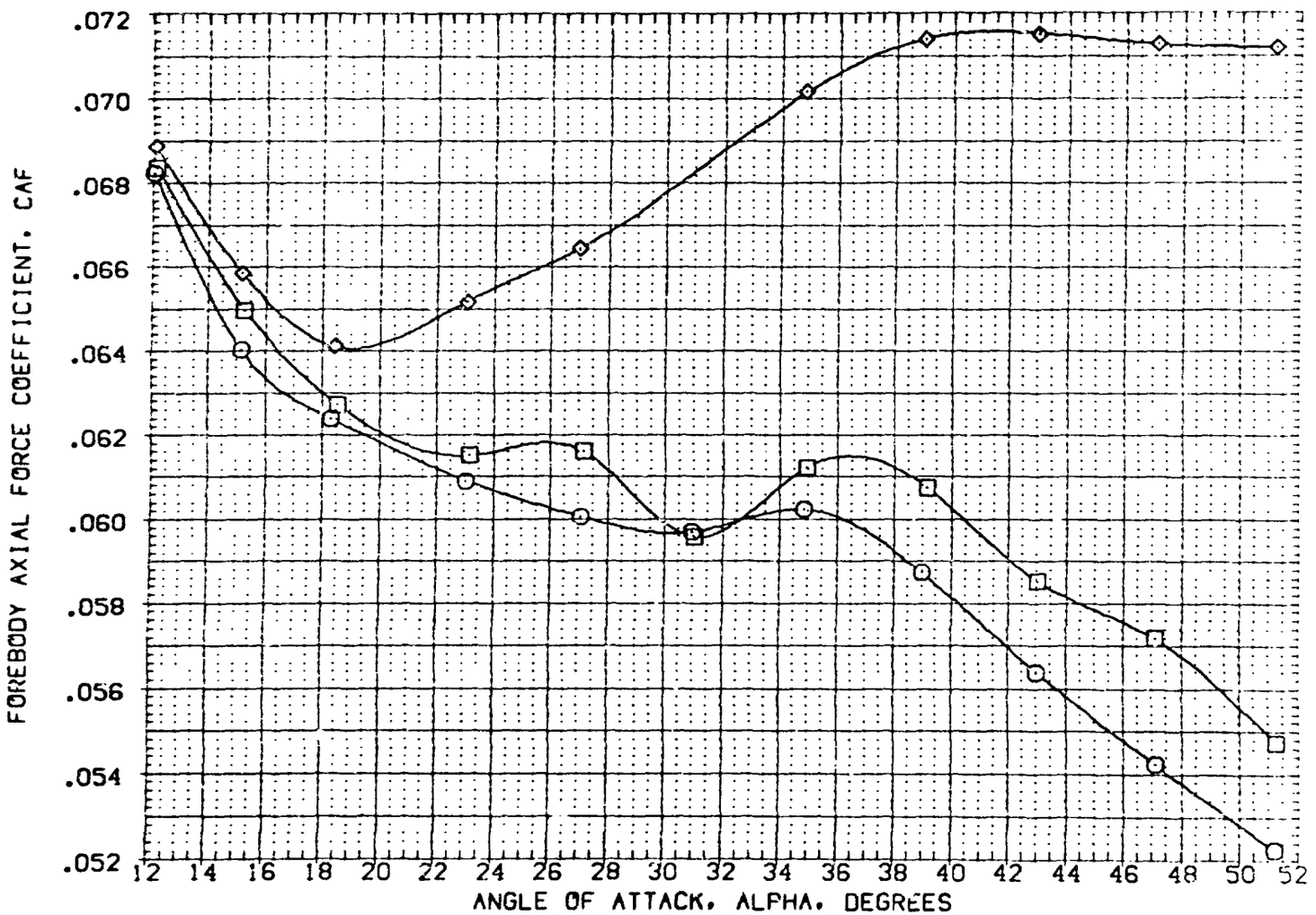


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(266018) ○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(C86017) □	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(C86016) ◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.1900	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

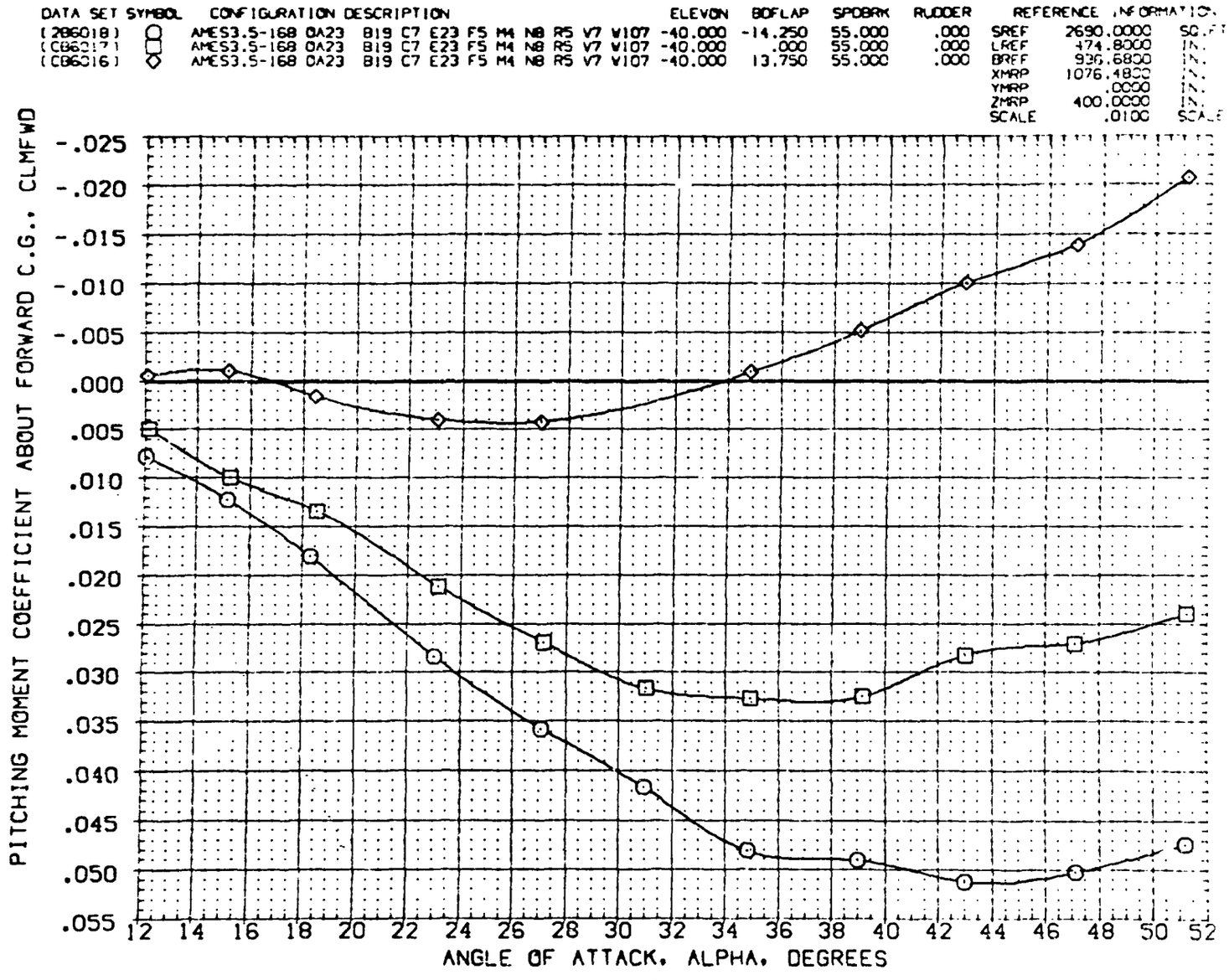


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(286018)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000
(CB6017)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	.000	55.000	.000
(CB6016)	◇	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.F
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

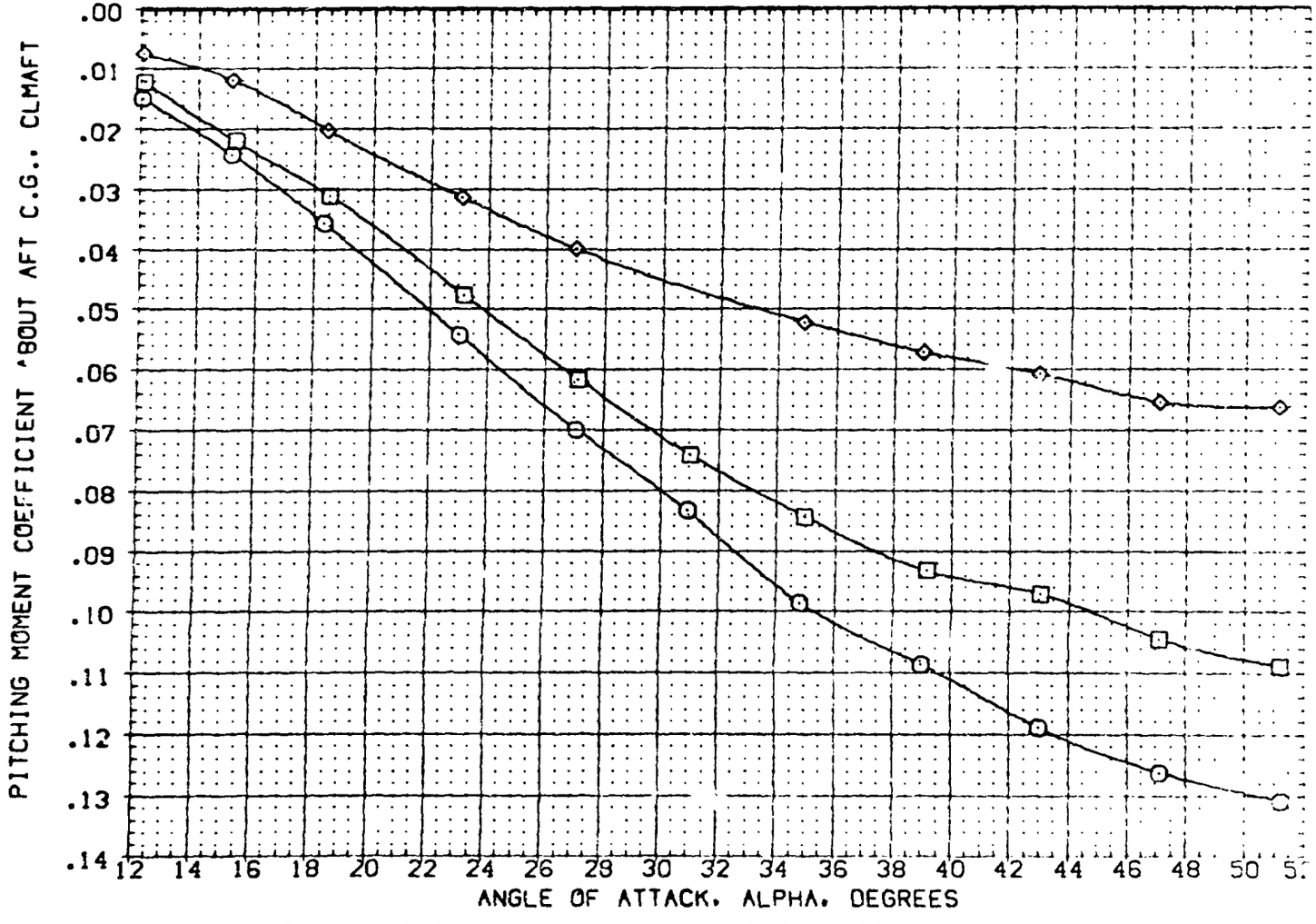


FIG. 8 BODY FLAP EFFECTS 1398 CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(286018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(286017)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(286016)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

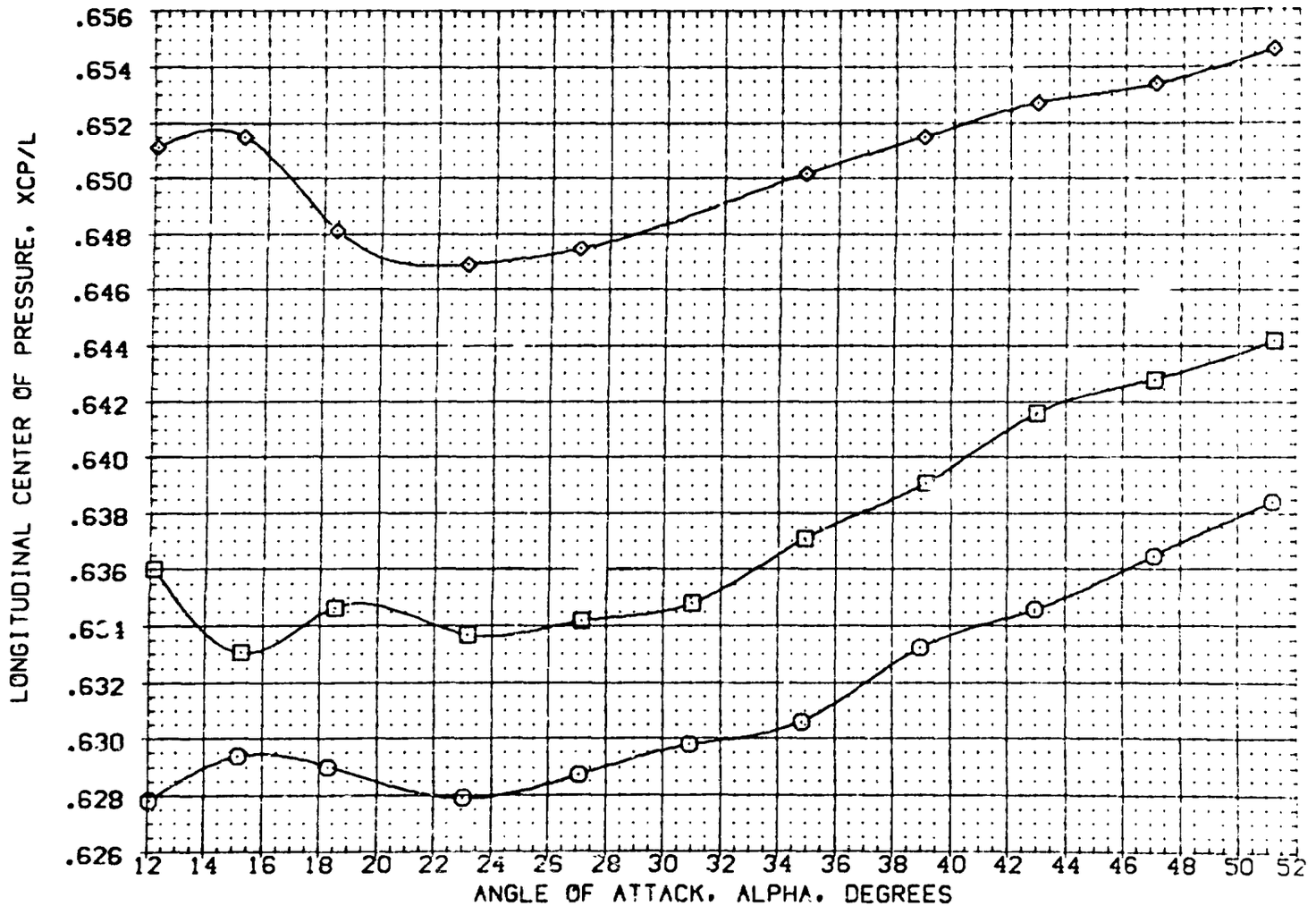


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(386018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(886017)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(886016)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

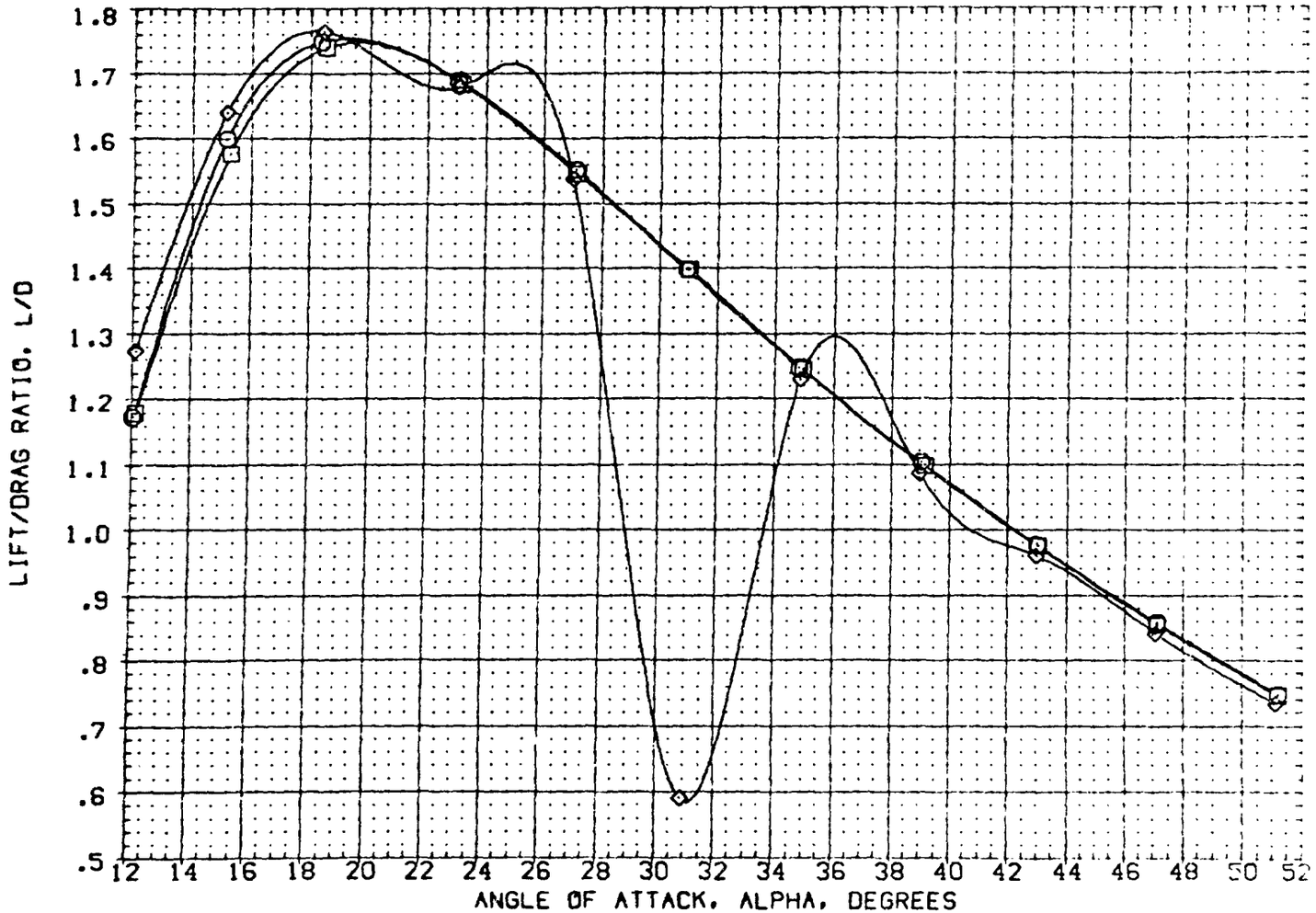


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BODFLAP	SPOBRK	RUDDER
(786018)	▢	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(C86017)	◇□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(C86016)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

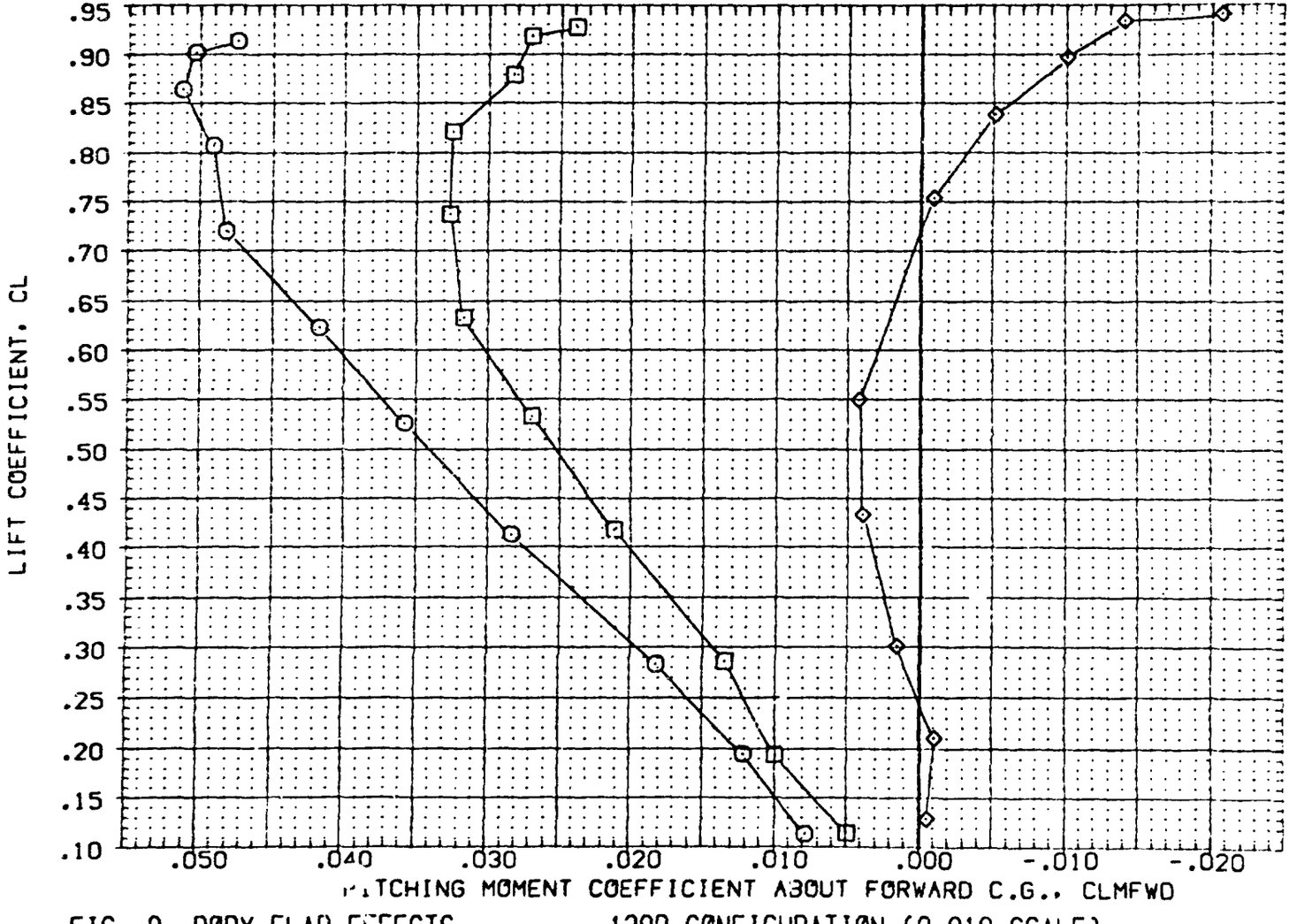


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(286018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(286017)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(286016)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

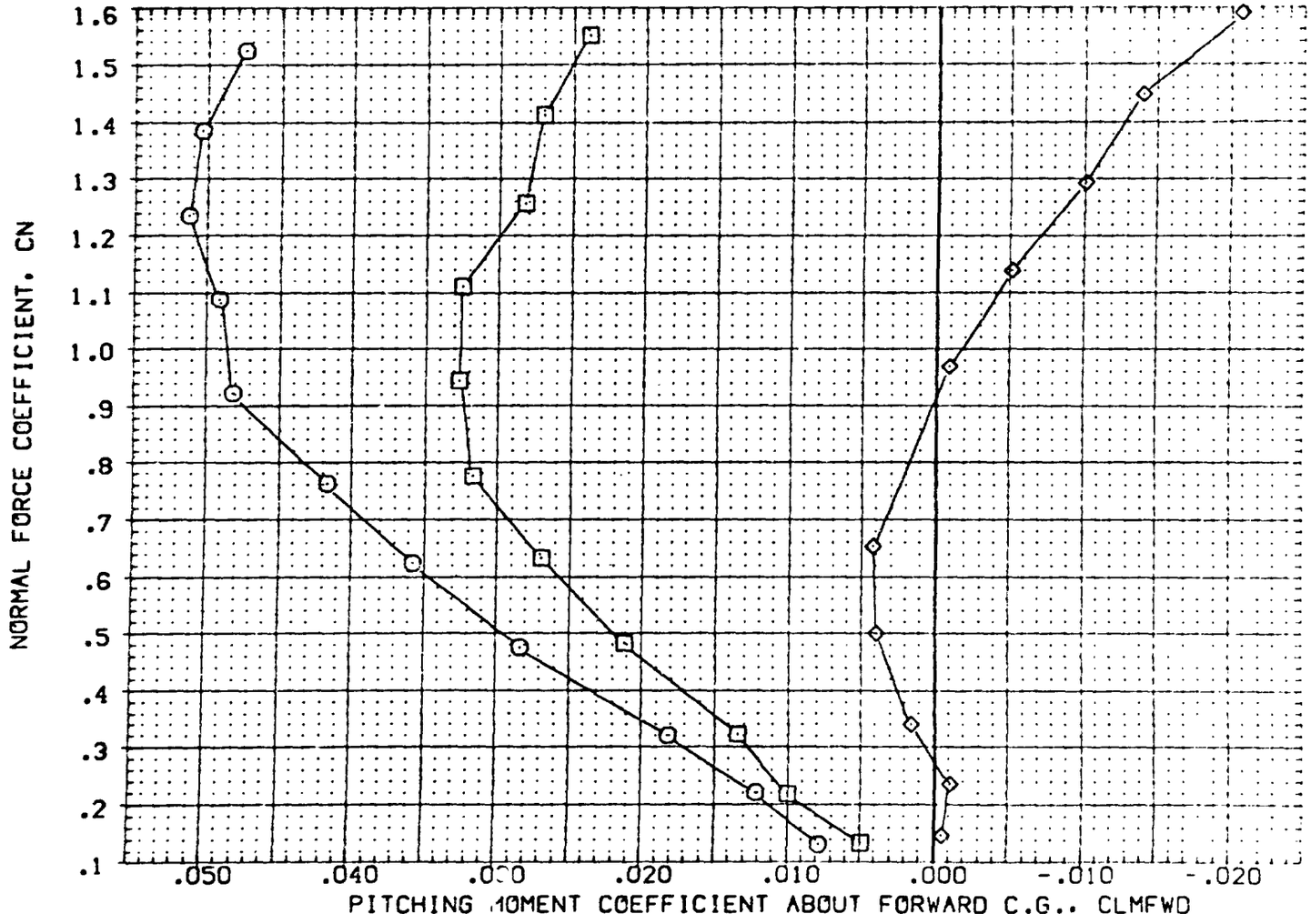


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(286018)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(286017)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000
(286016)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

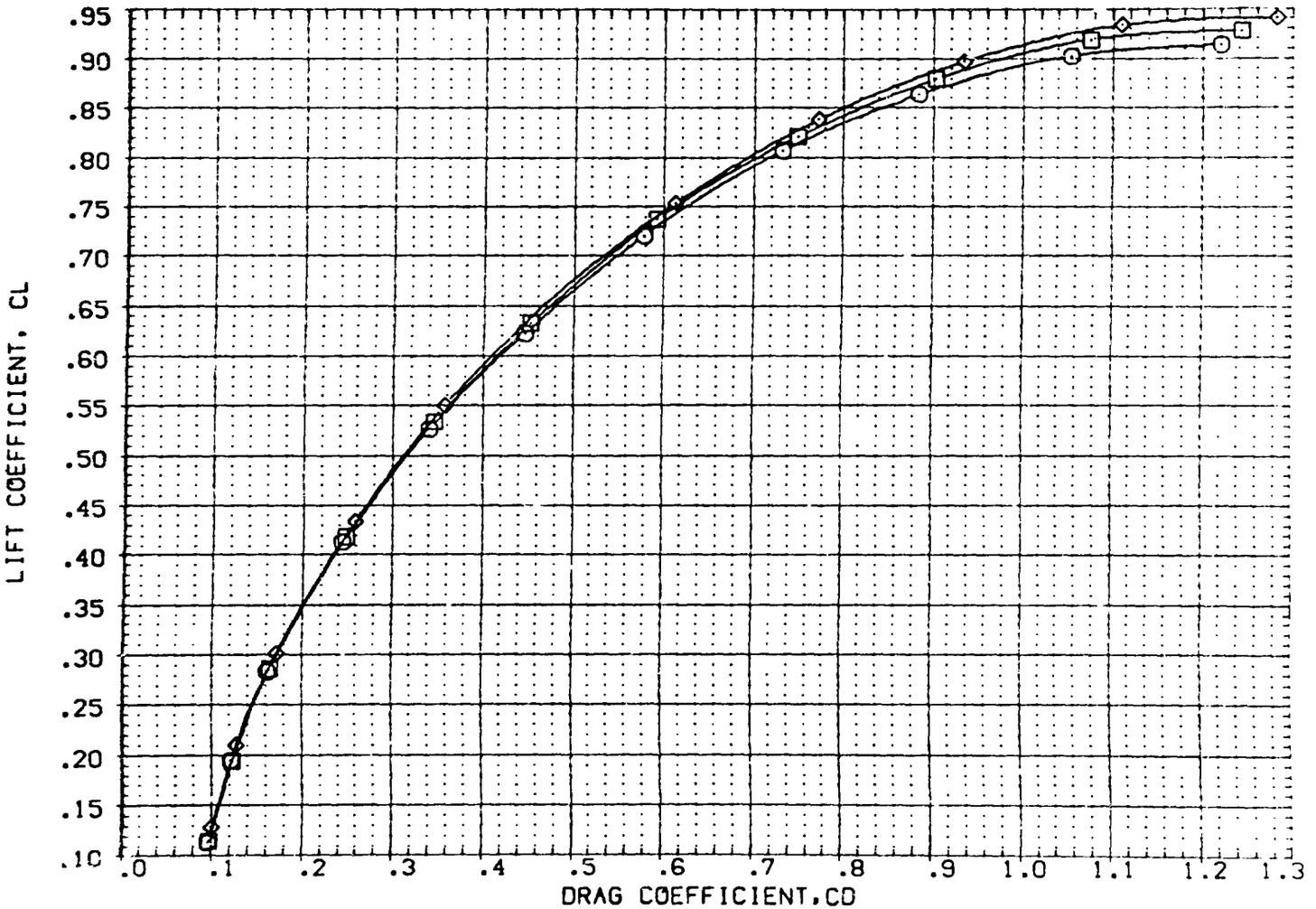


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

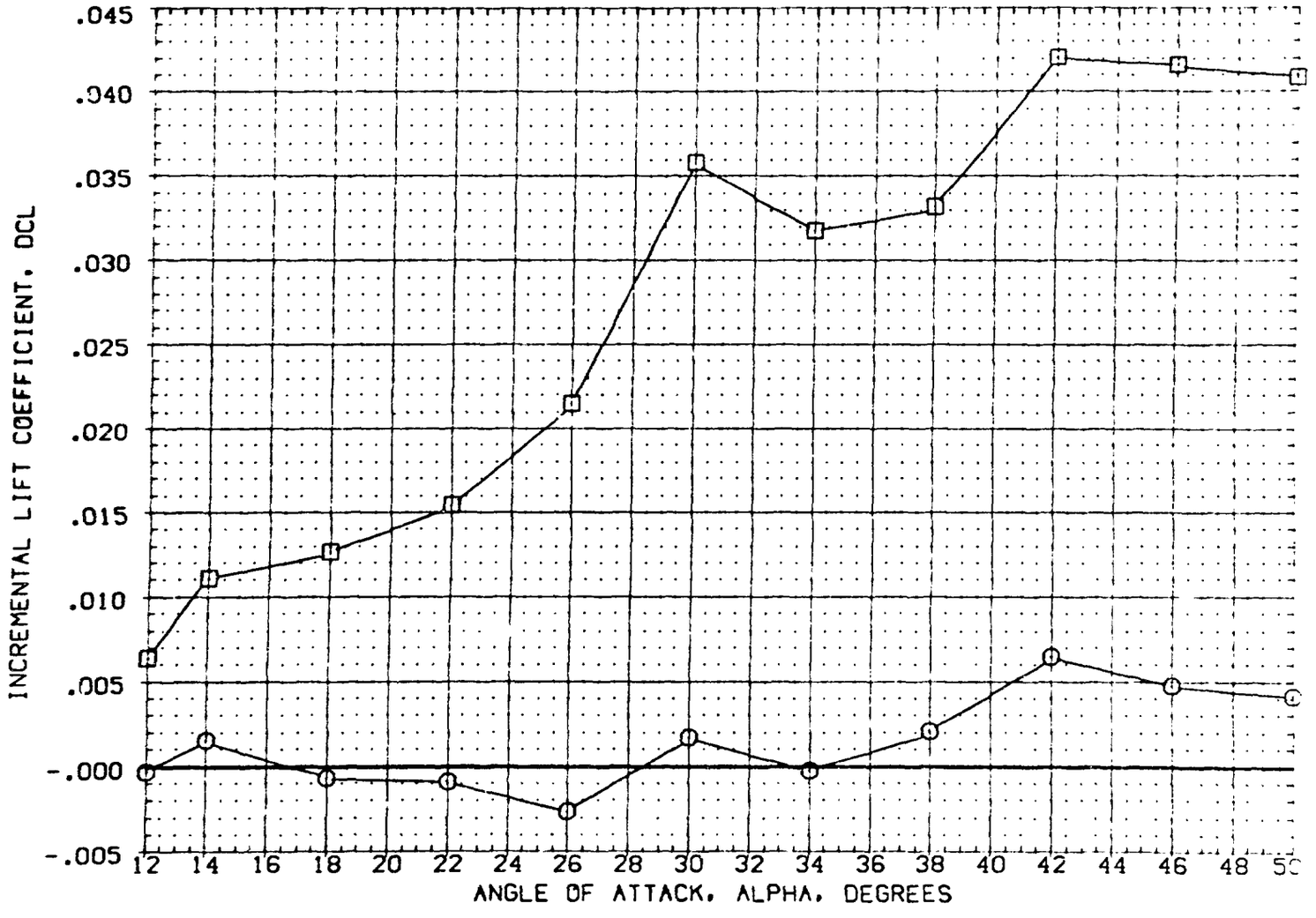


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TB6012)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

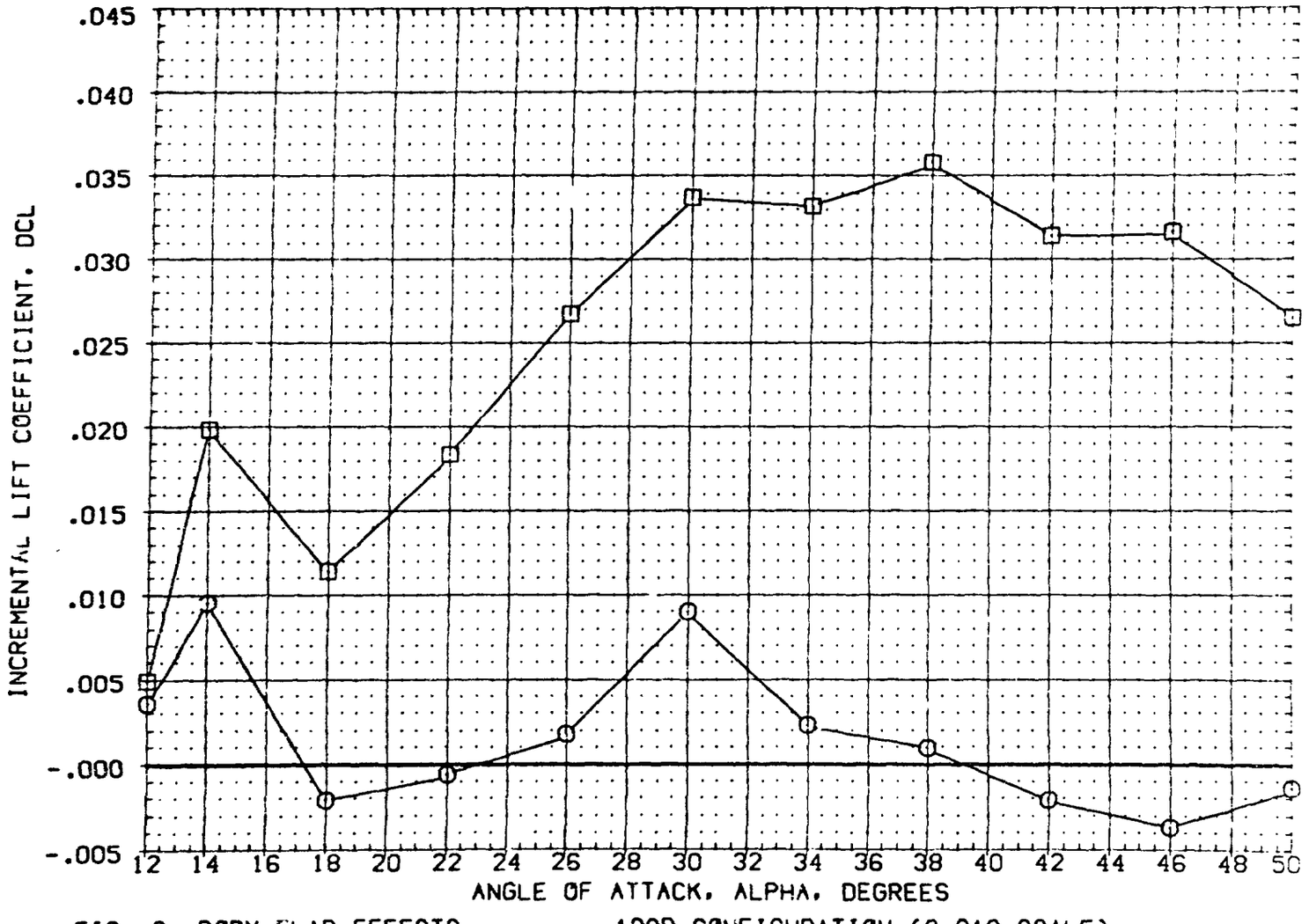


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

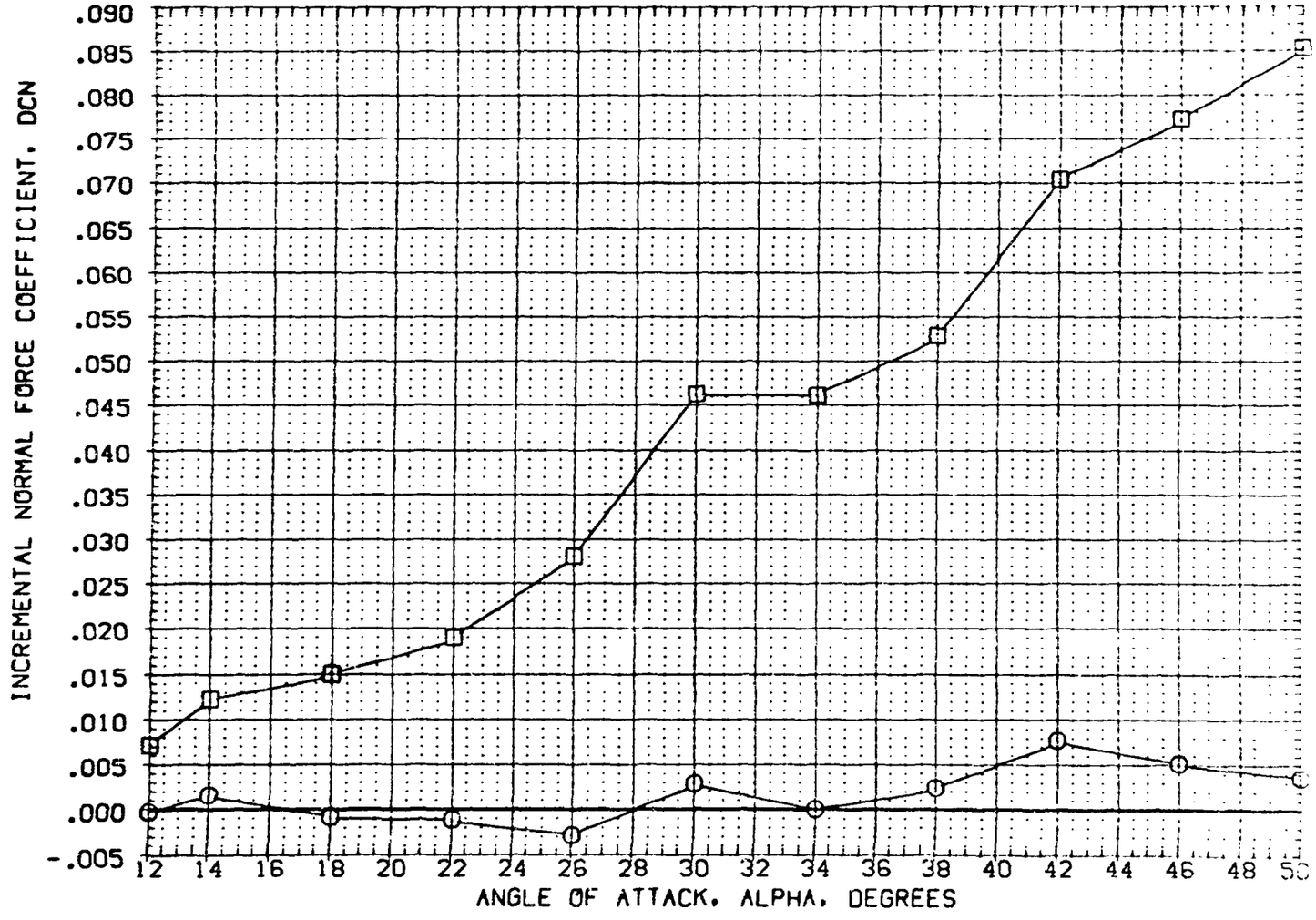


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TB6012)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

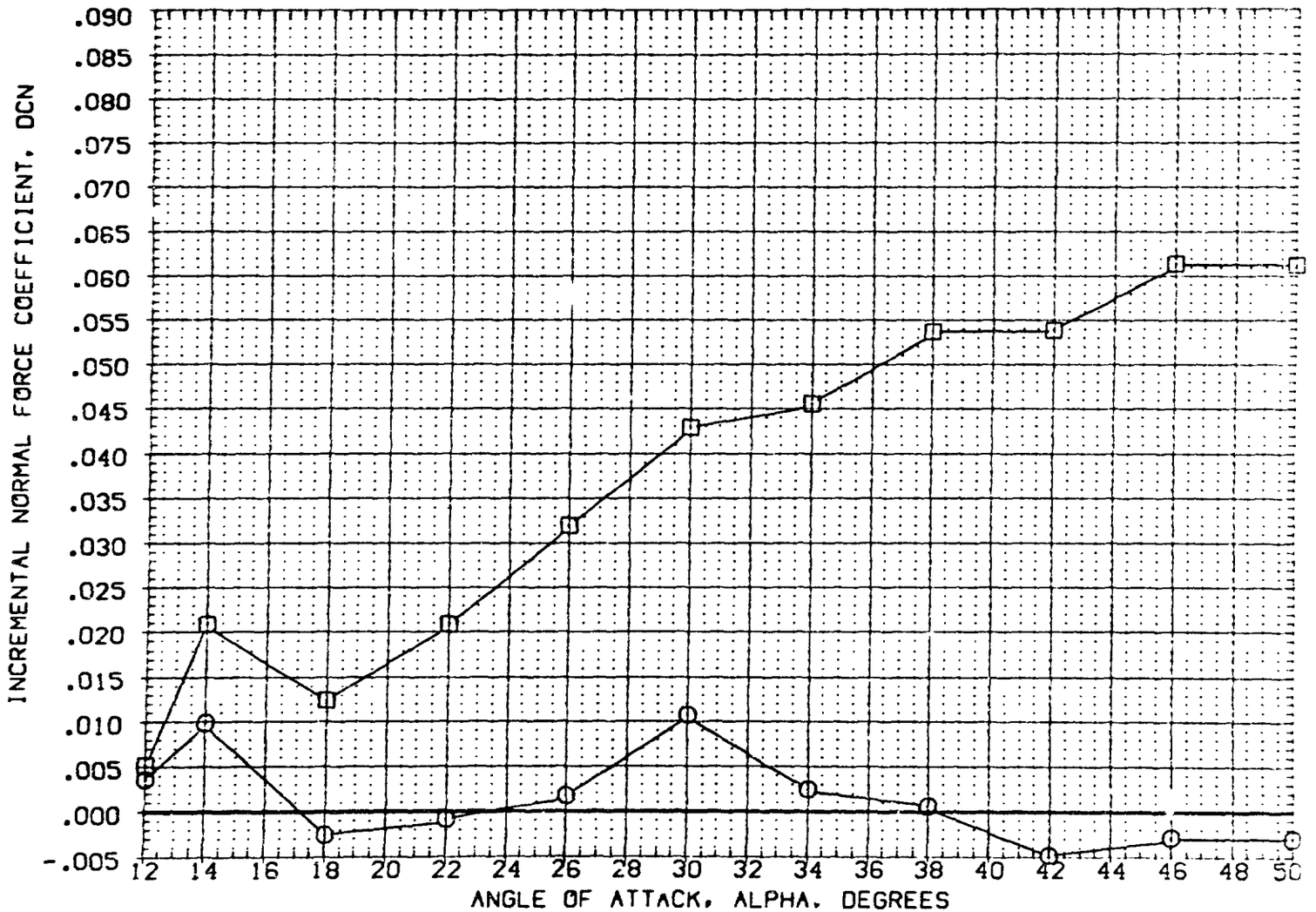


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6600	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

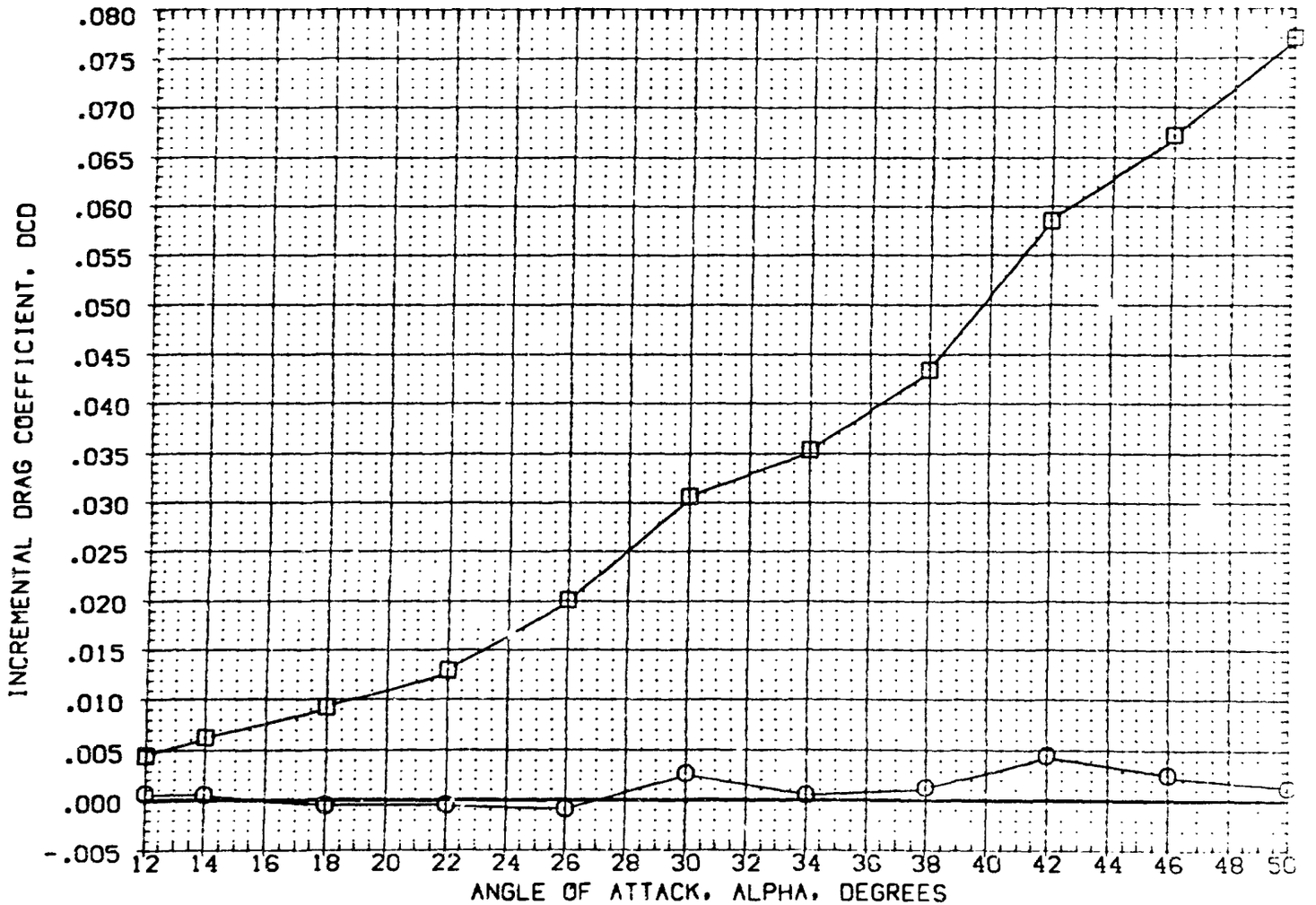


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(186012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(186011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	336.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

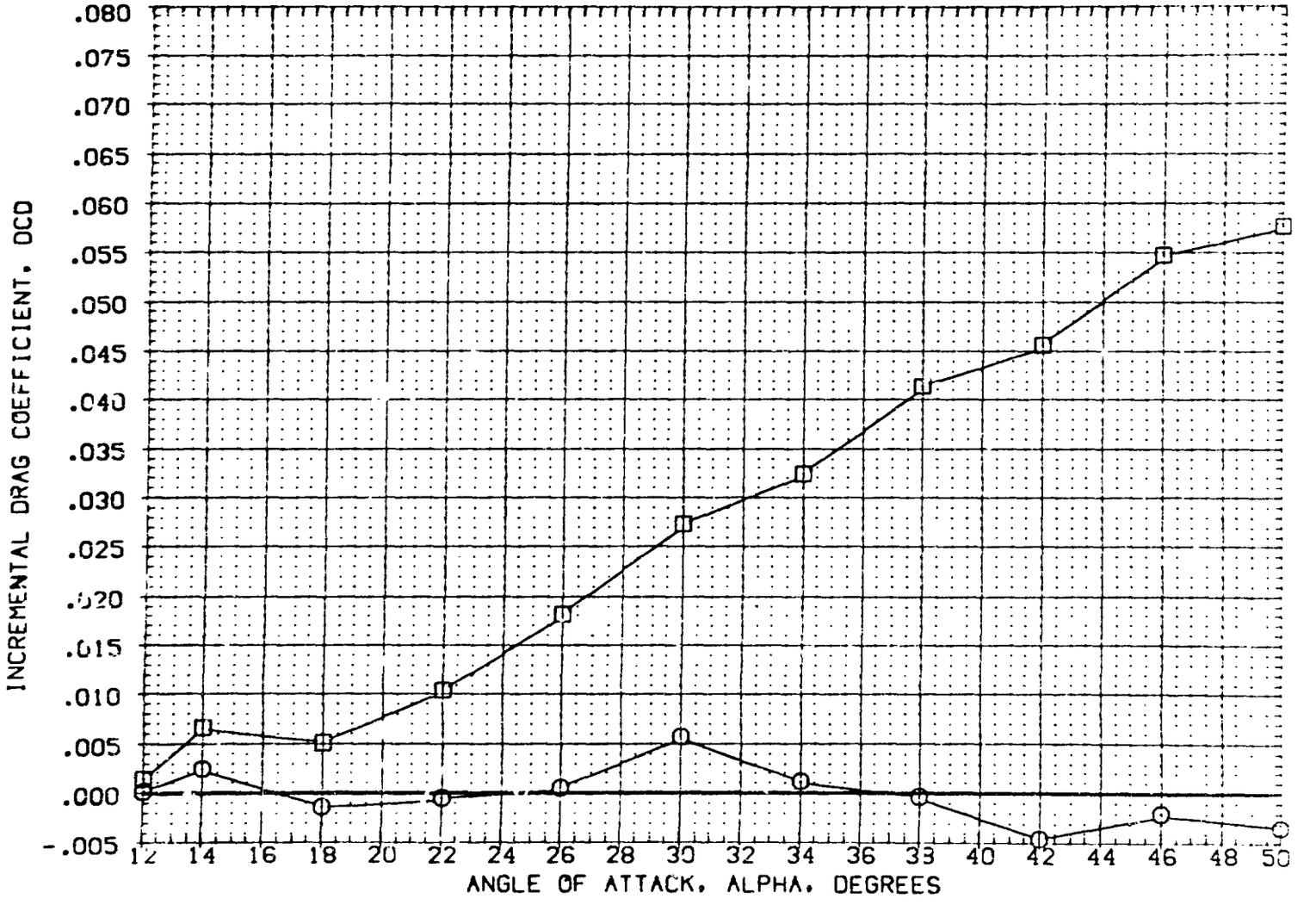


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOILER	RUDDER
(TB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BPCP	936.6930	IN.
XMRP	1076.4930	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

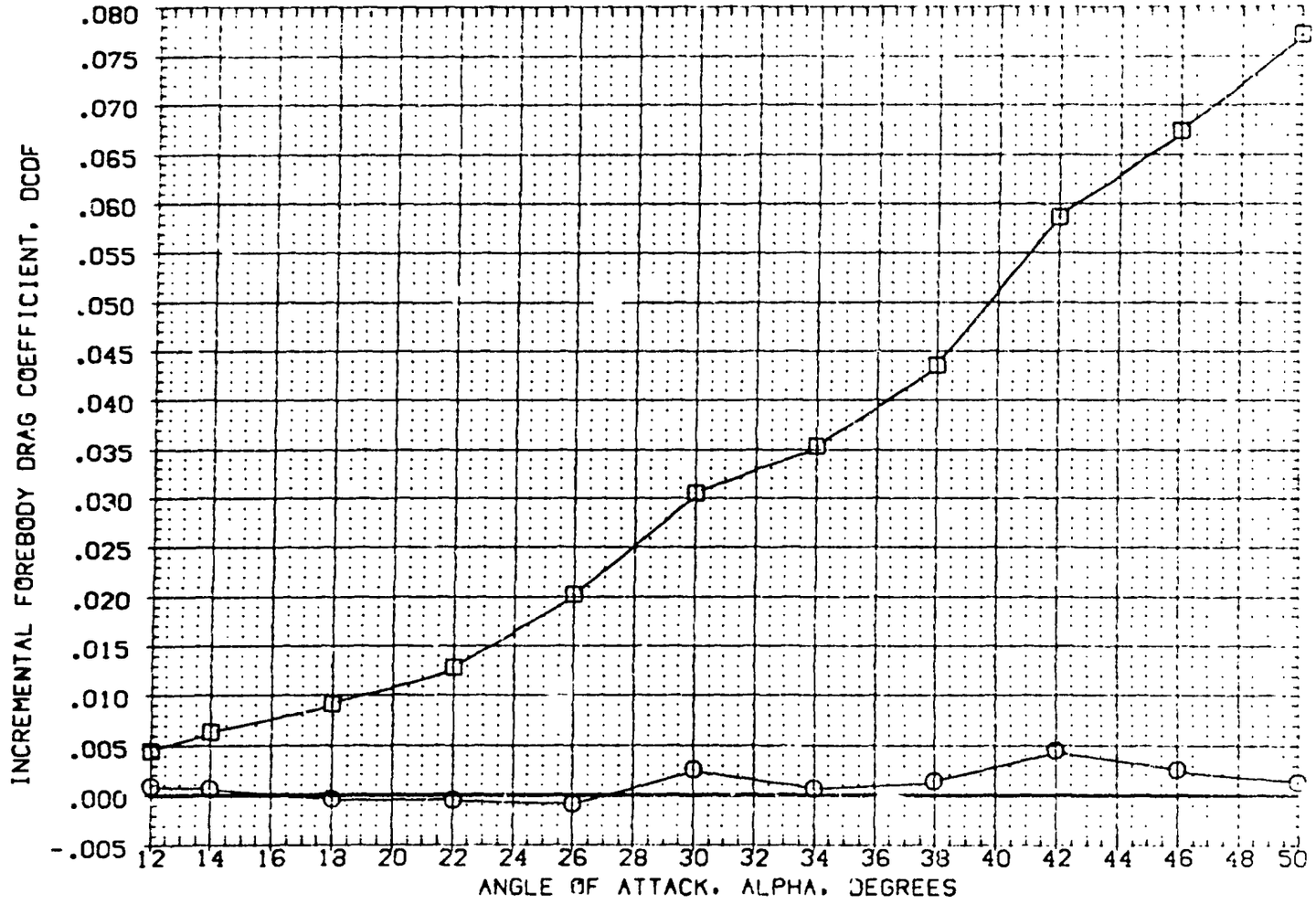


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	OBF	SPOBRK	RUDDER
(TB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

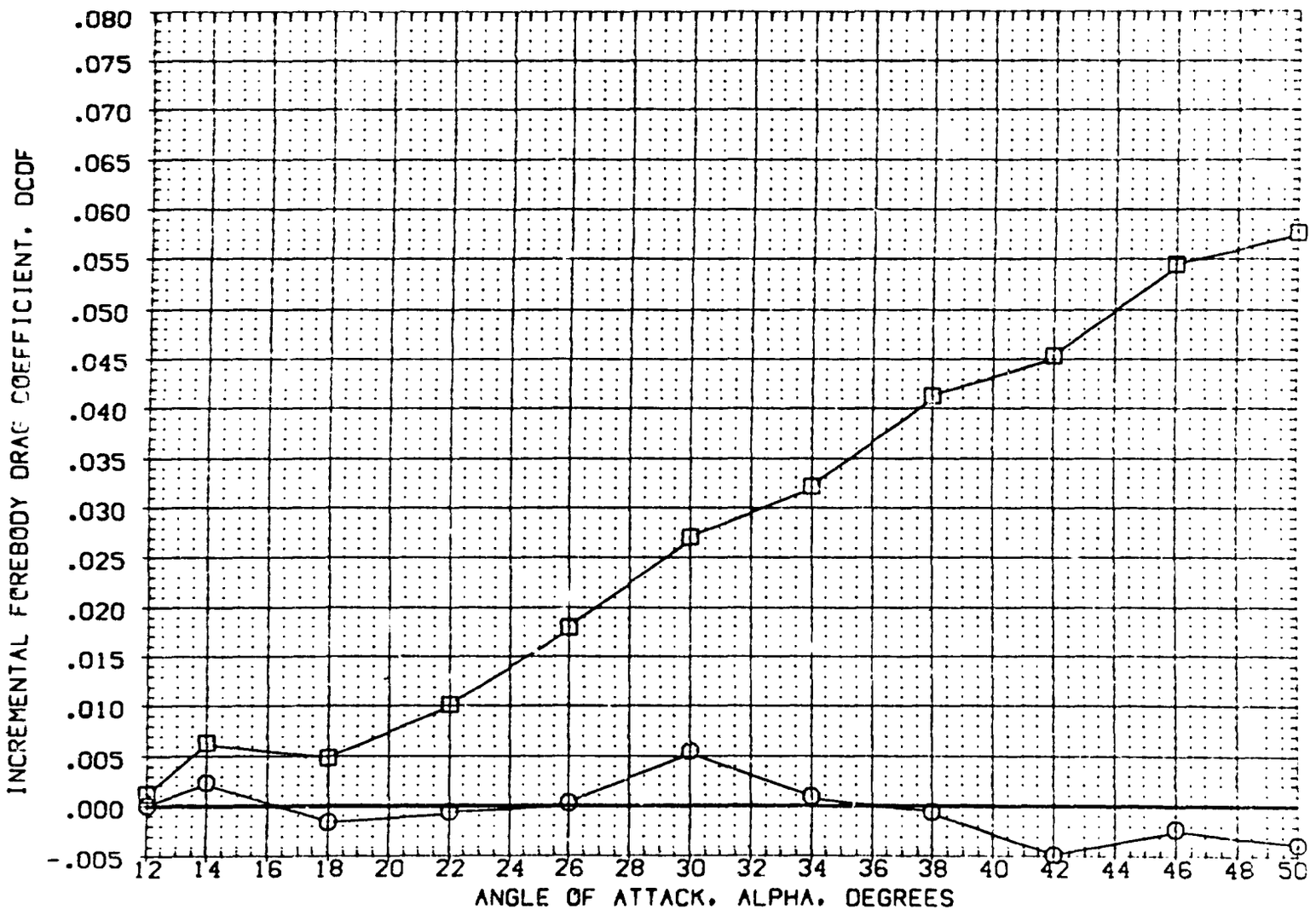


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(TB6012)	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

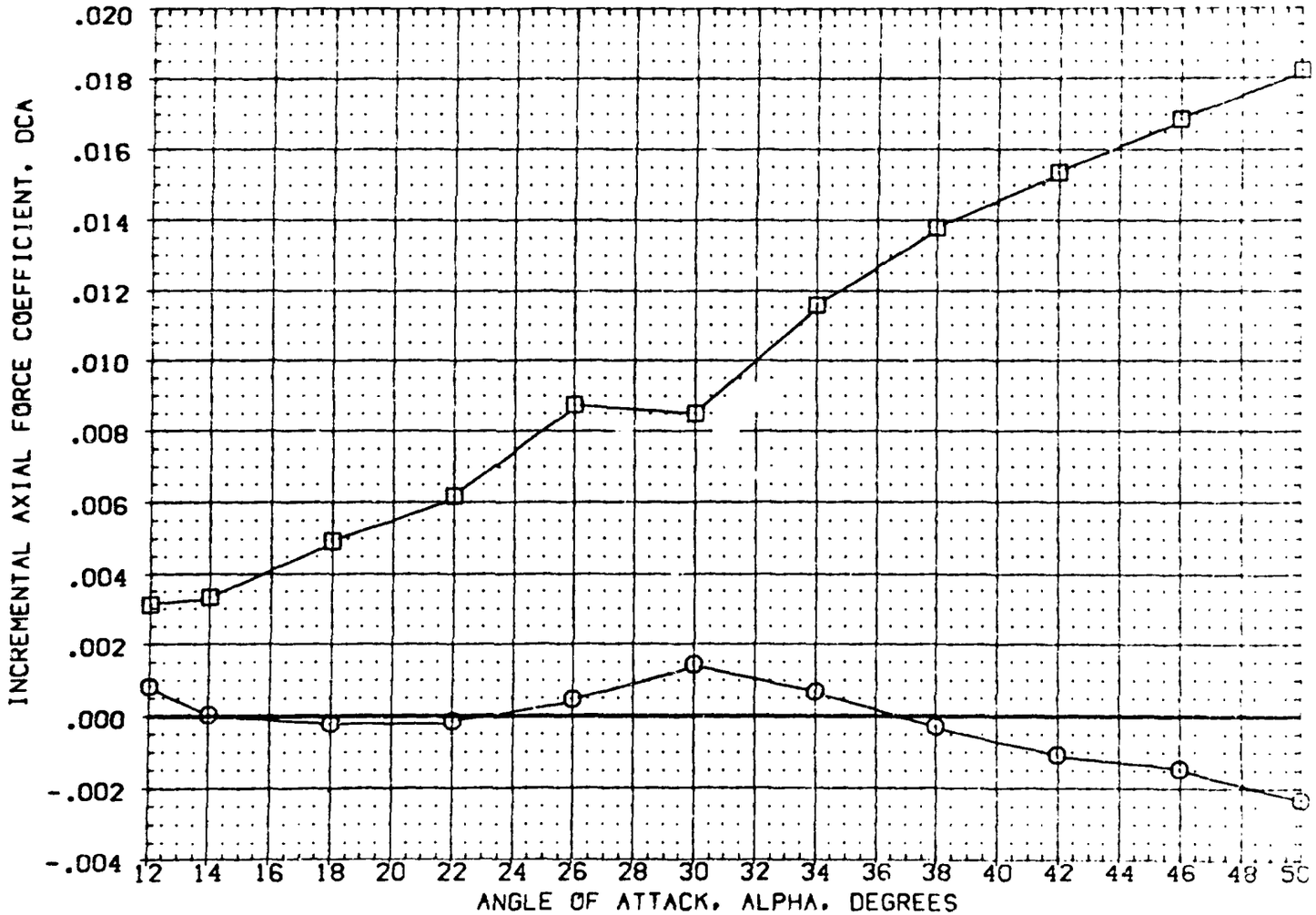


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(T86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(T86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

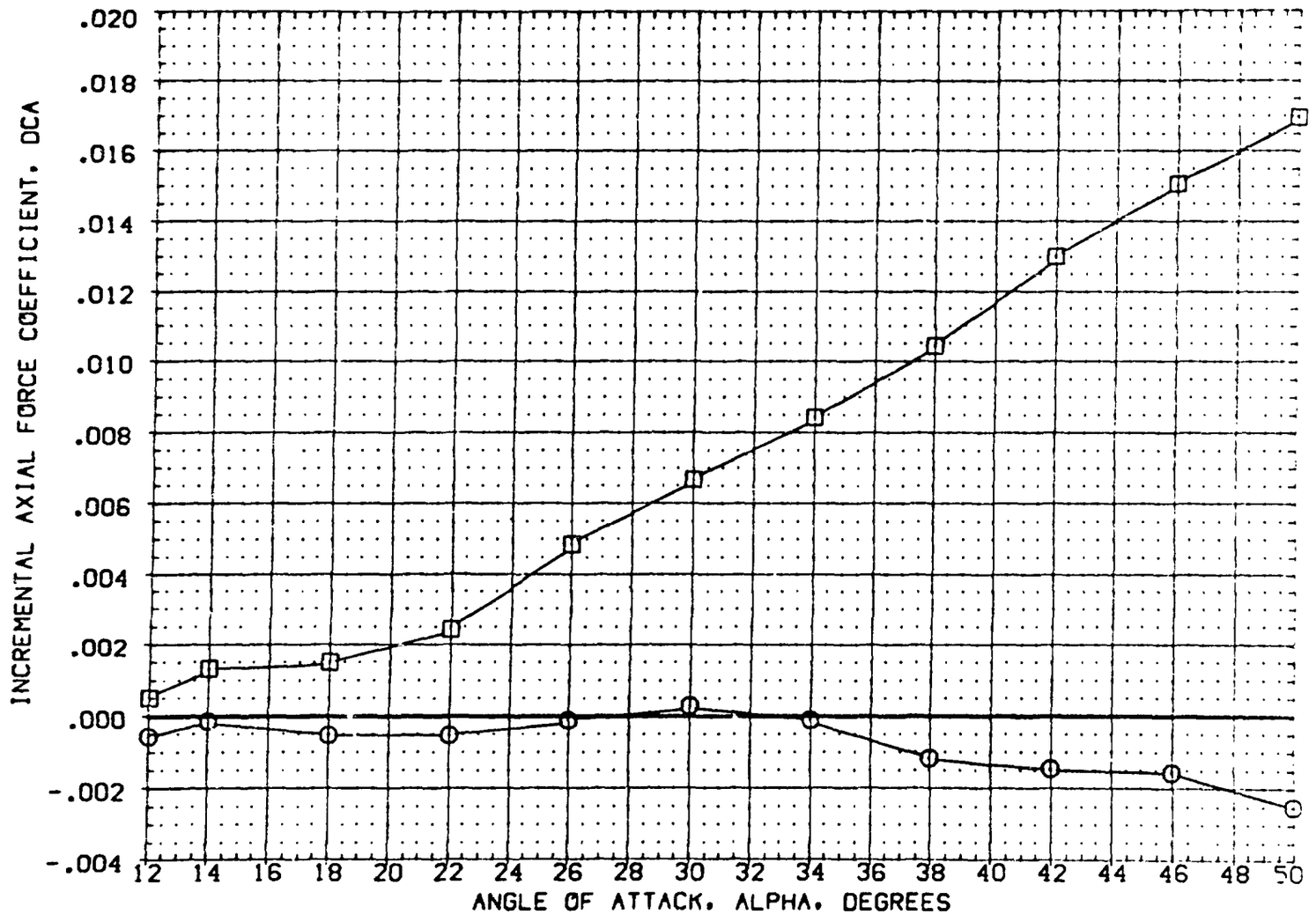


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(TB6012)	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6600	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

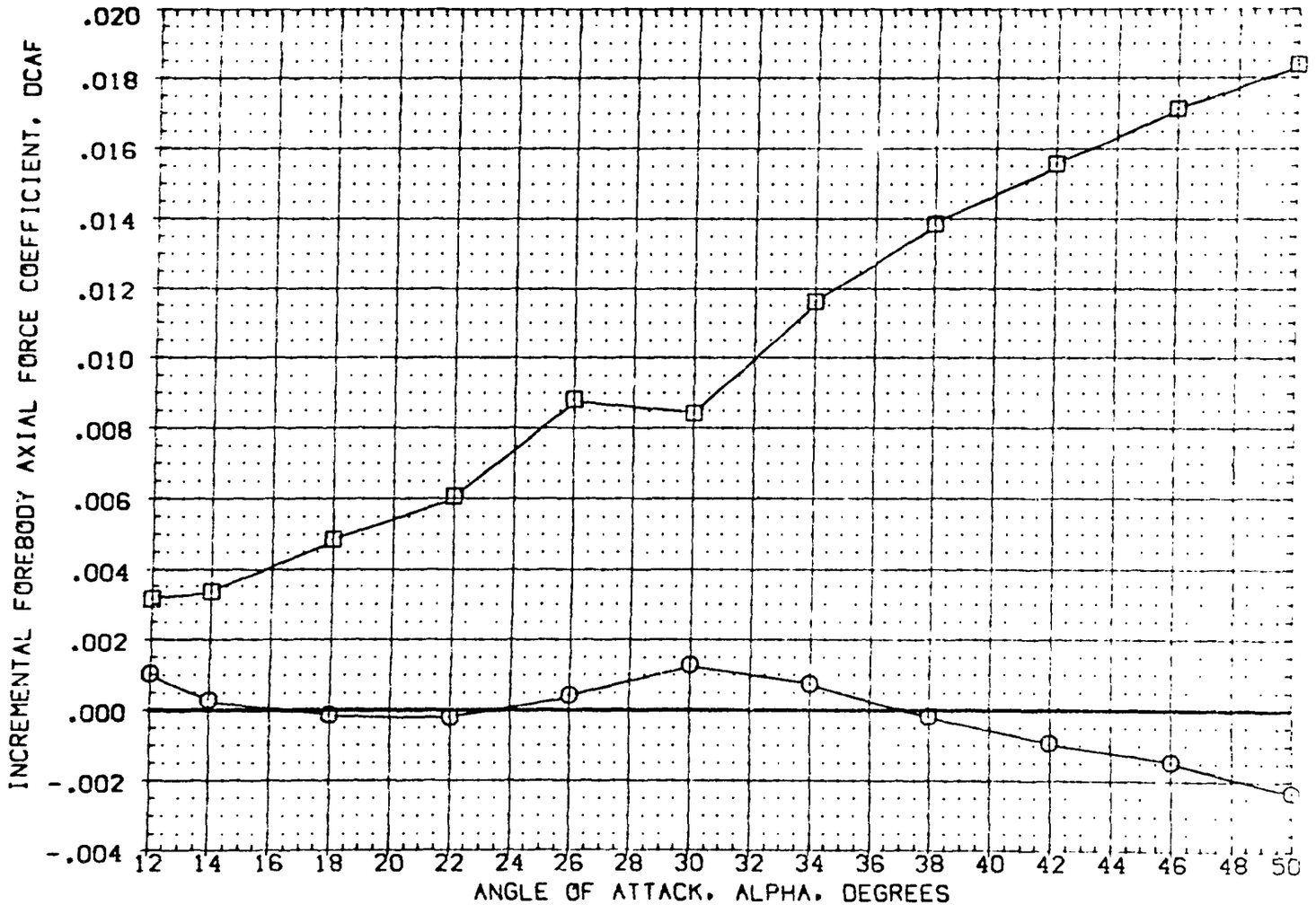


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

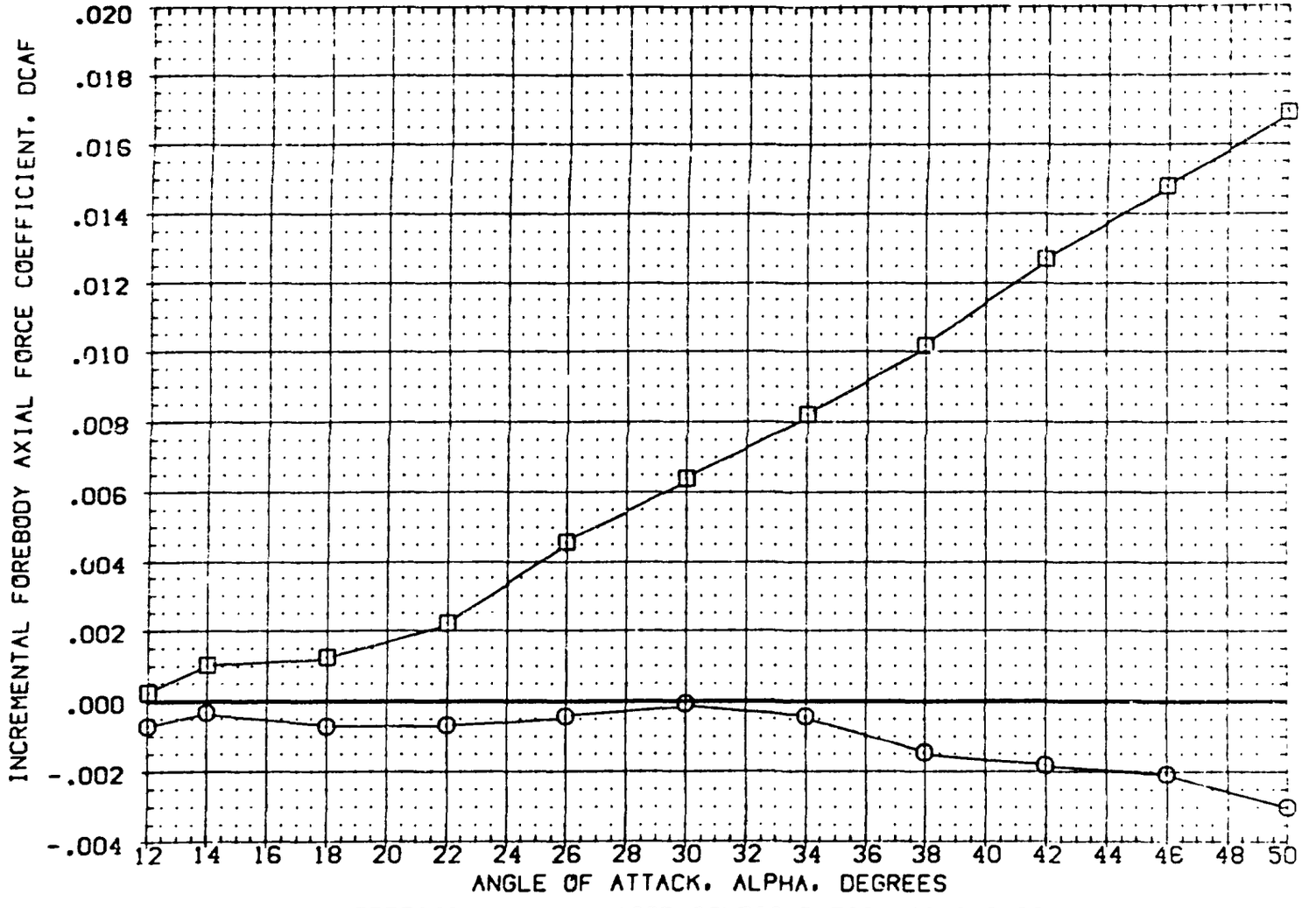


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	[illegible]	RUDDER
(TB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

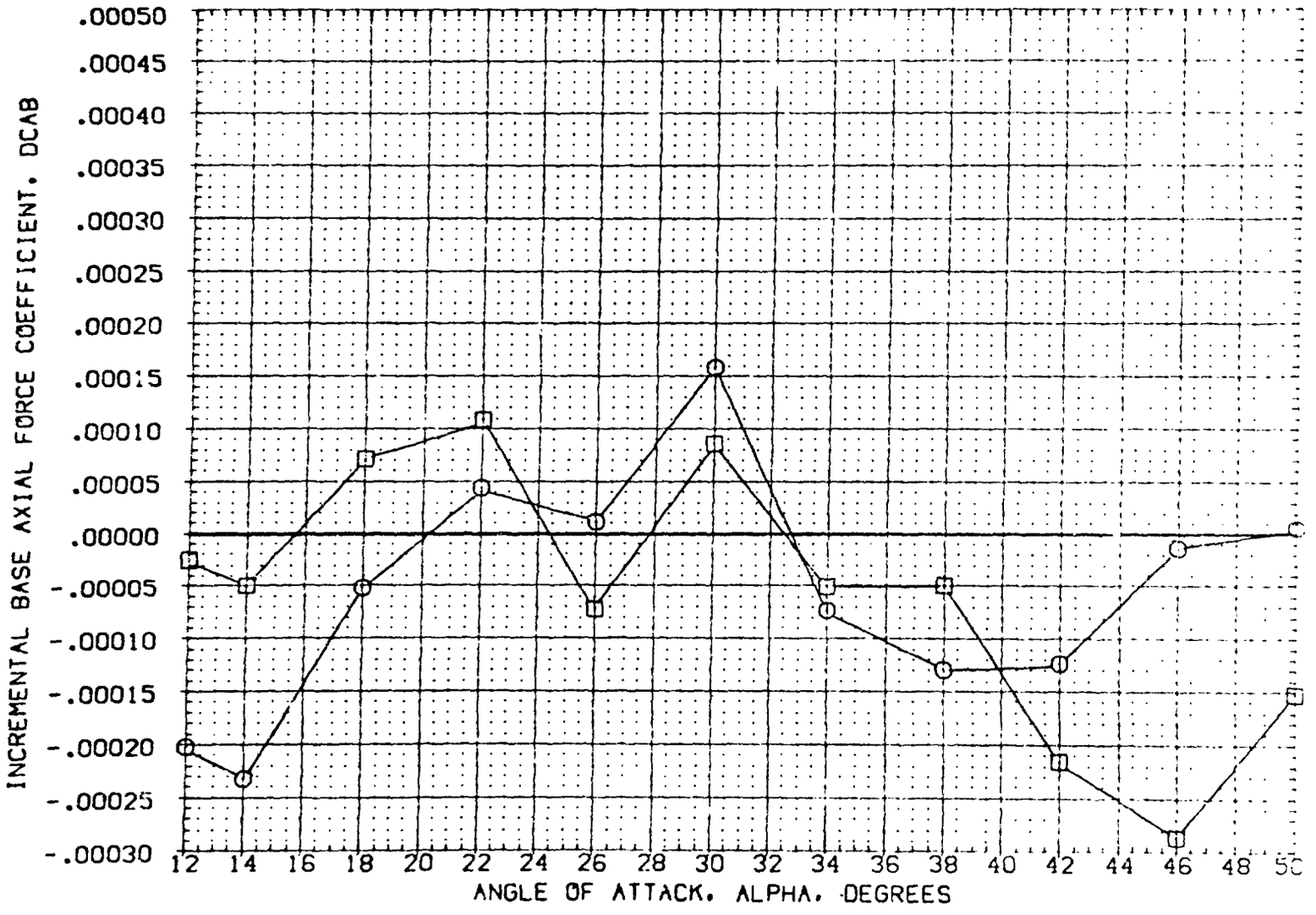


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(T86012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(T86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

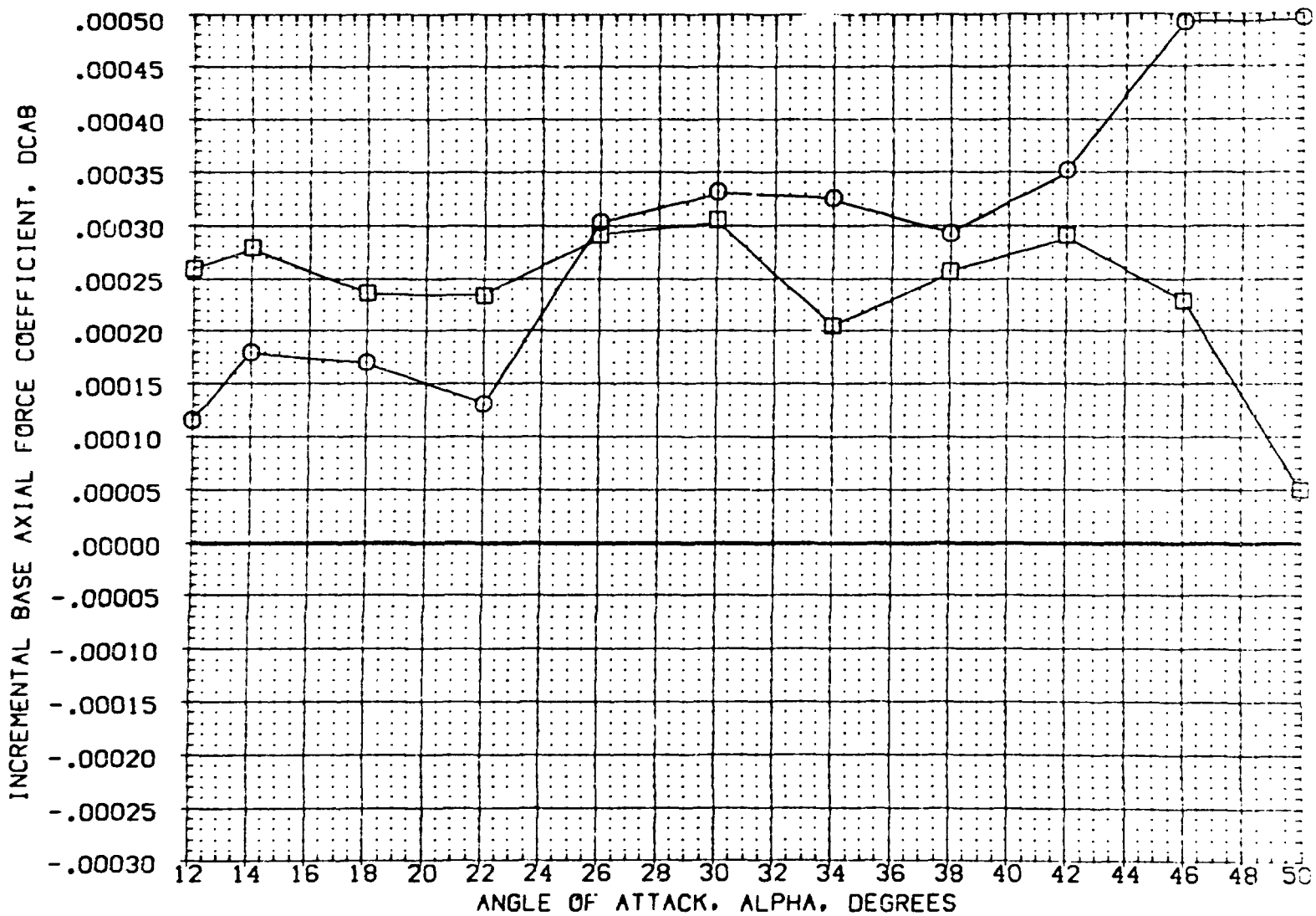


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

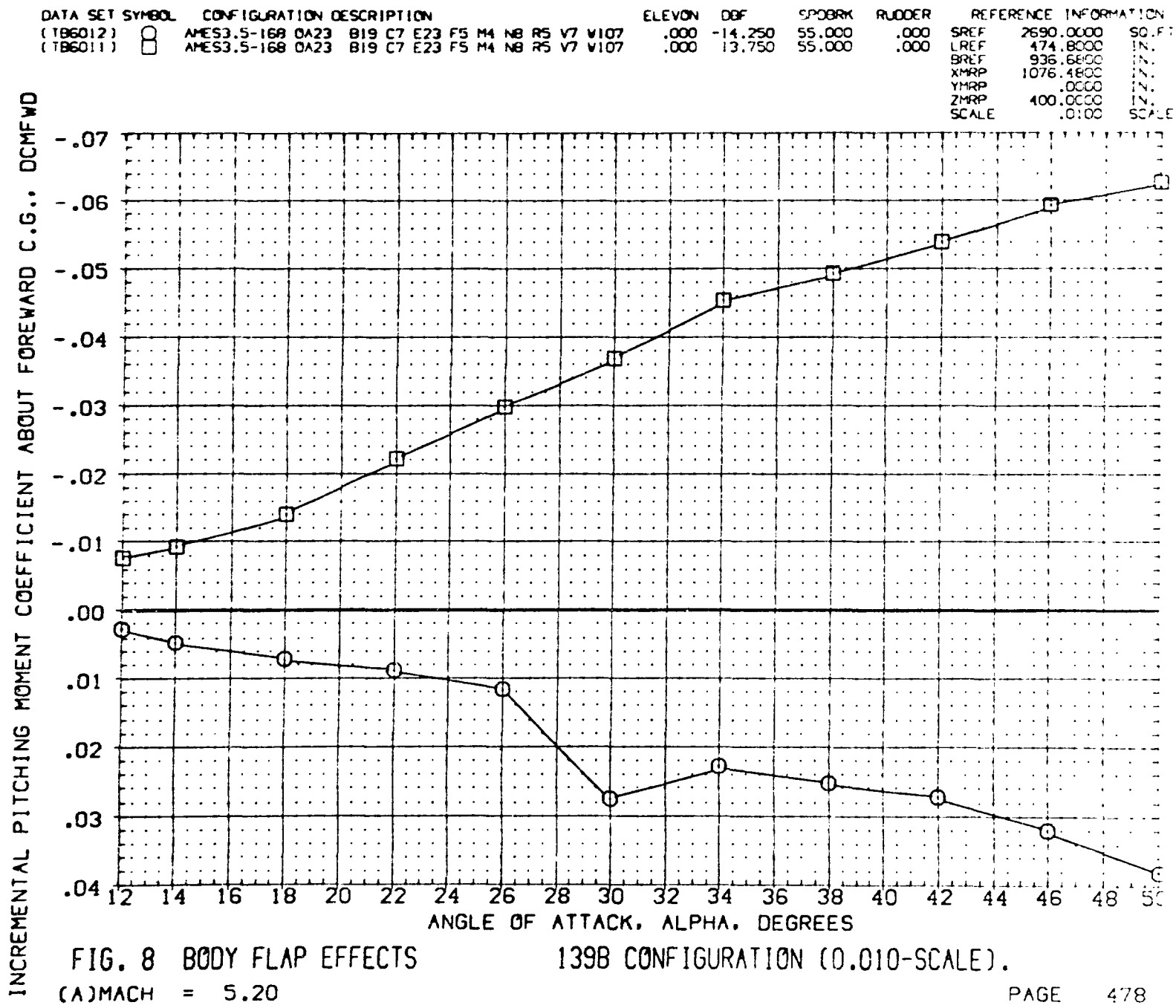


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(TB6012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(TB6011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

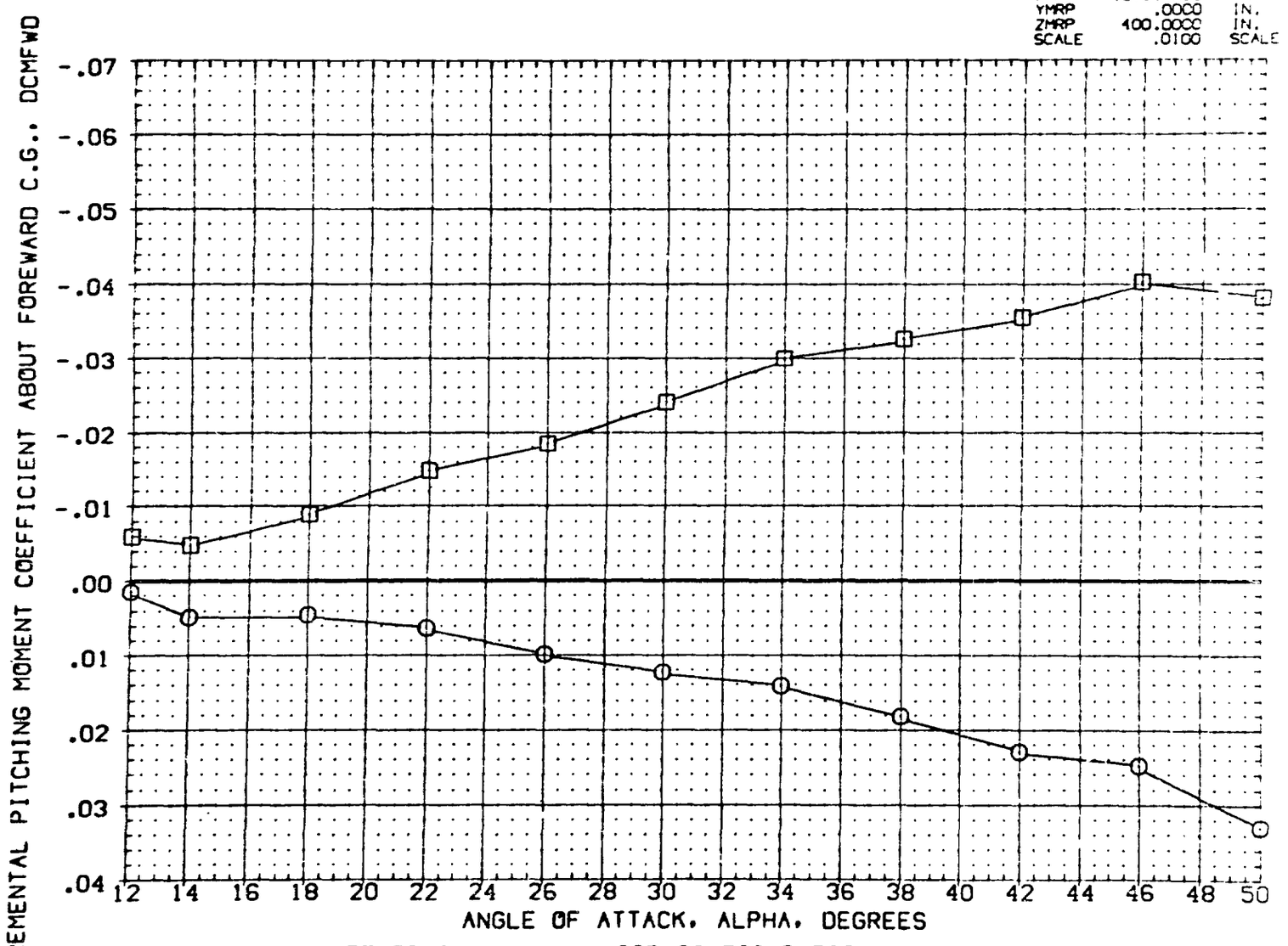


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

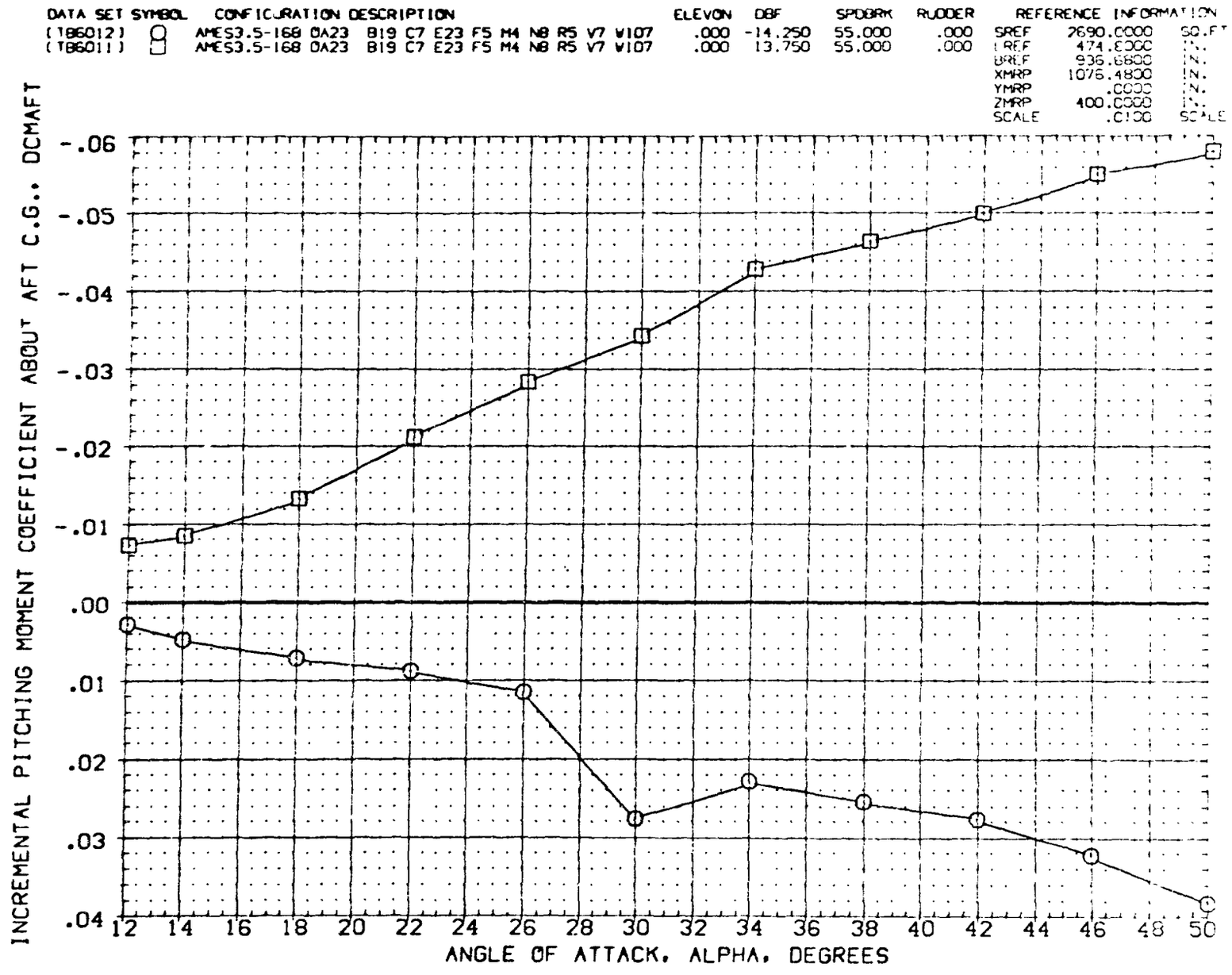


FIG. 8 BODY FLAP EFFECTS WBJB CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

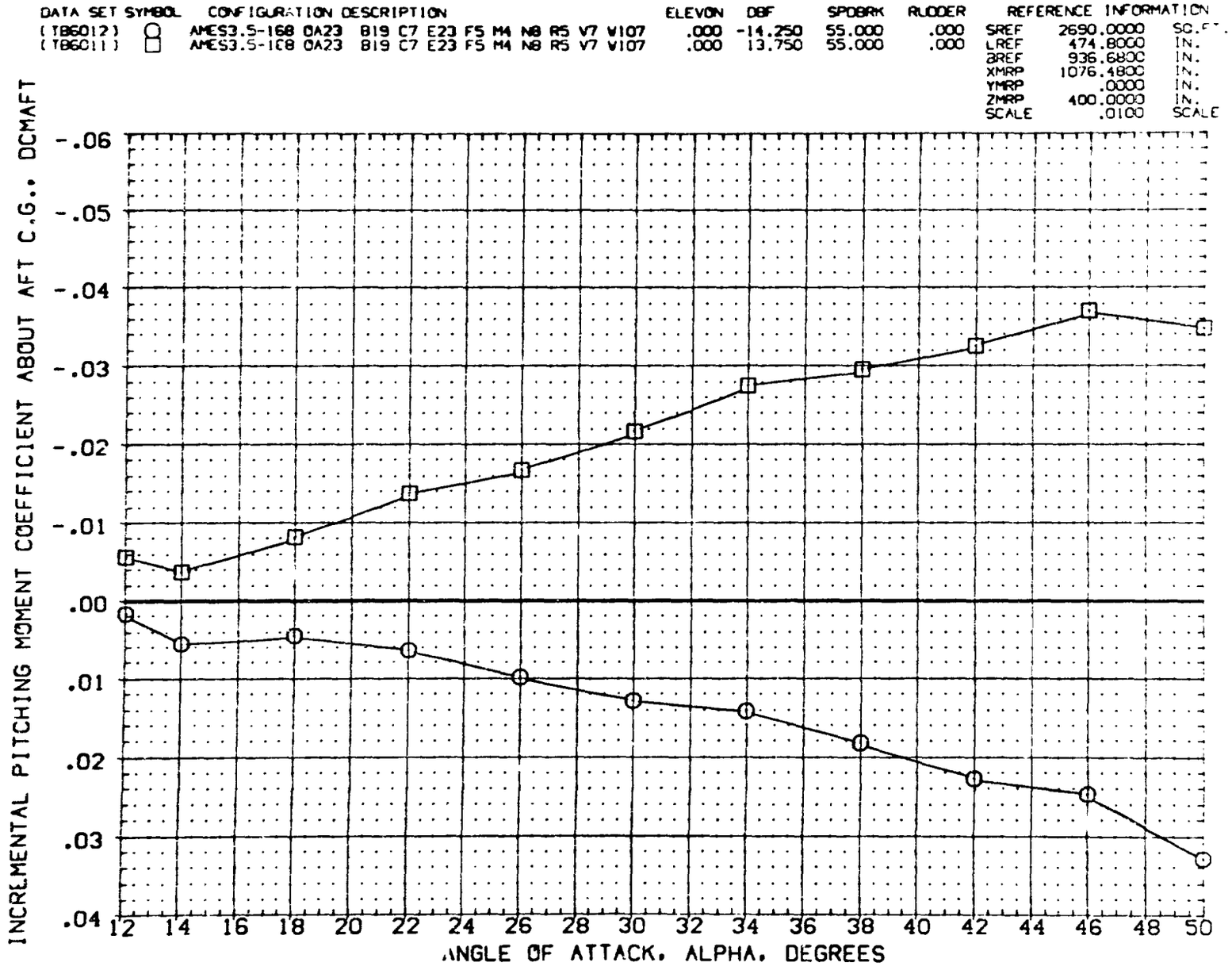


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TB6U18)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6016)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(TB6U18)	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6016)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

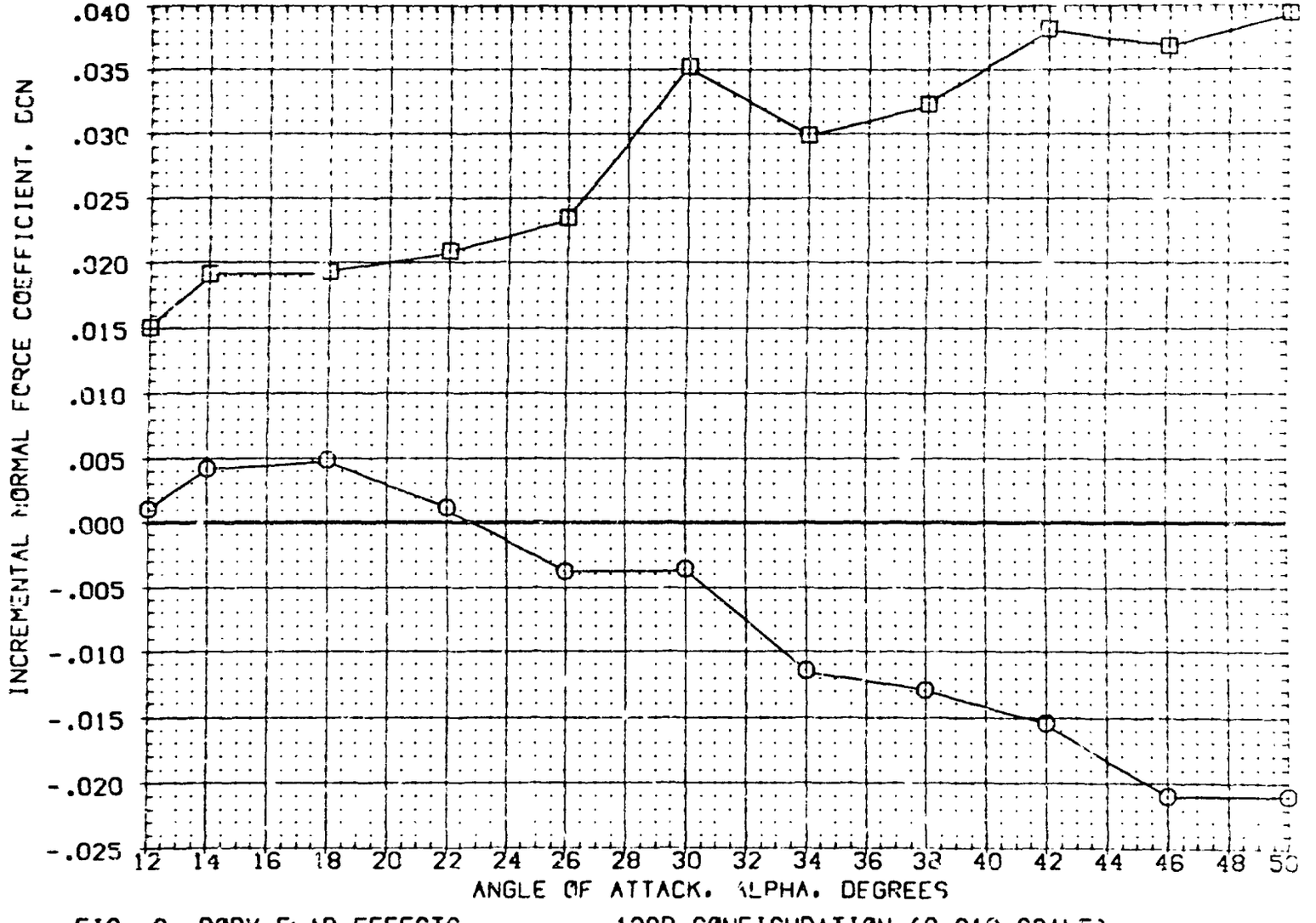


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

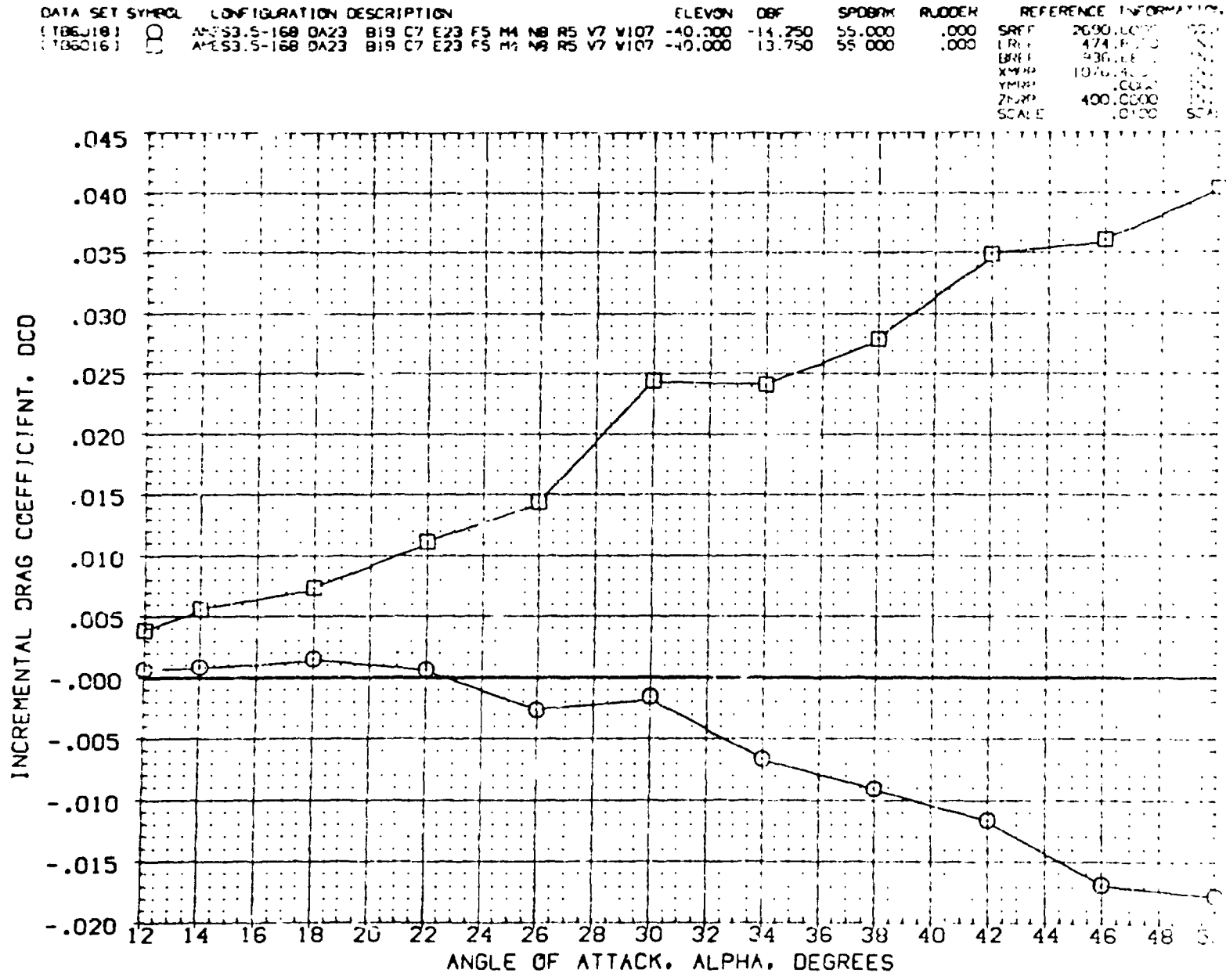


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	OBF	SPOBRK	RUDDER
(TBGU18)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(TBGO16)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

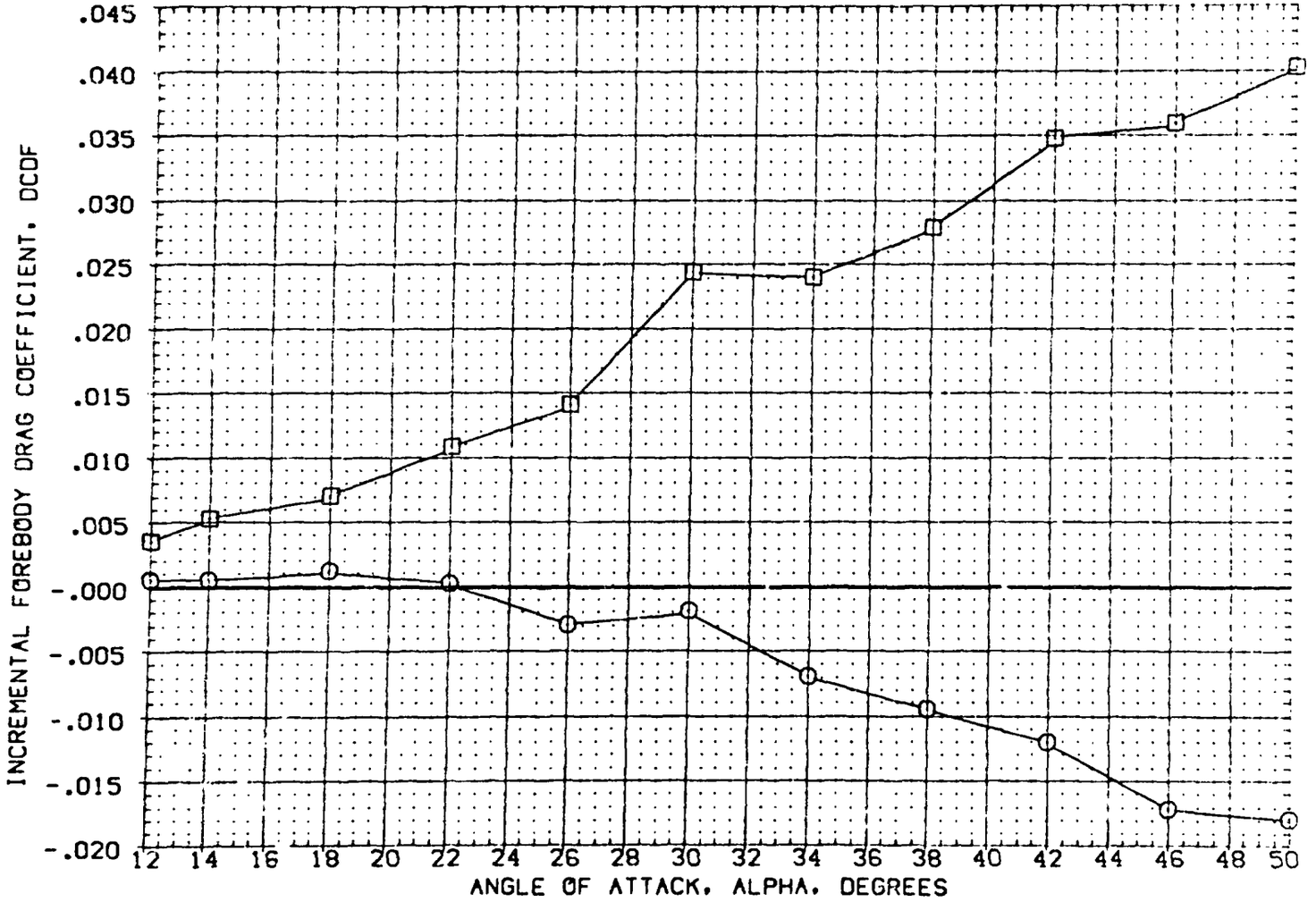


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TB6U18) ○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 RS V7 W107	-40.000	-14.250	55.000	.000
(TB6016) □	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 RS V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.F
LREF	474.8000	IN.
LBREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

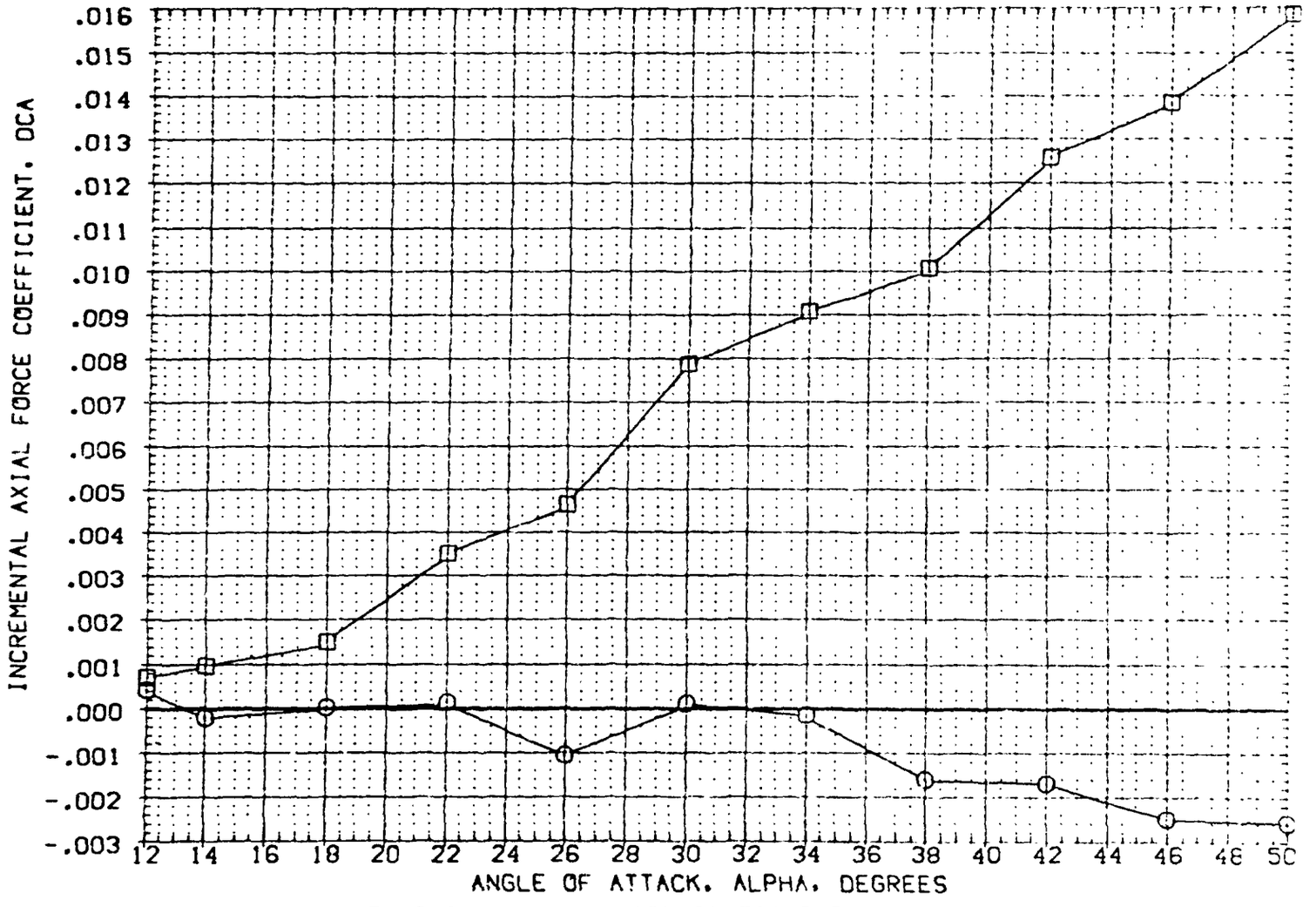


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(T86J18)	○	AMES3.5-168 0A23 B19 .7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(T86016)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

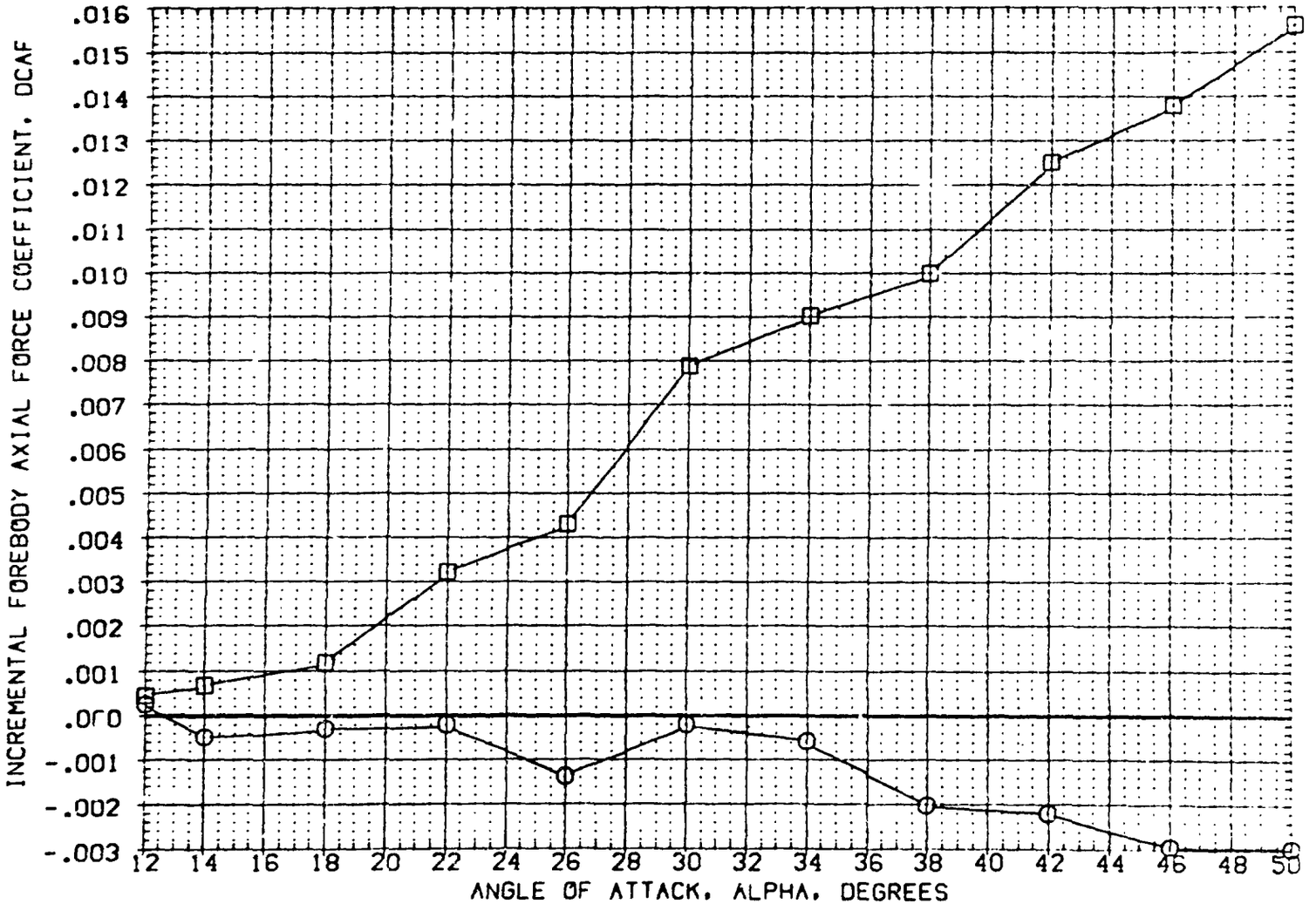


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(TBGU18) ○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000
(TB6016) □	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.F
LREF	474.8000	FT.
BREF	936.6800	FT.
XMRP	1076.4800	FT.
YMRP	.0000	FT.
ZMRP	400.0000	FT.
SCALE	.0100	SCALE

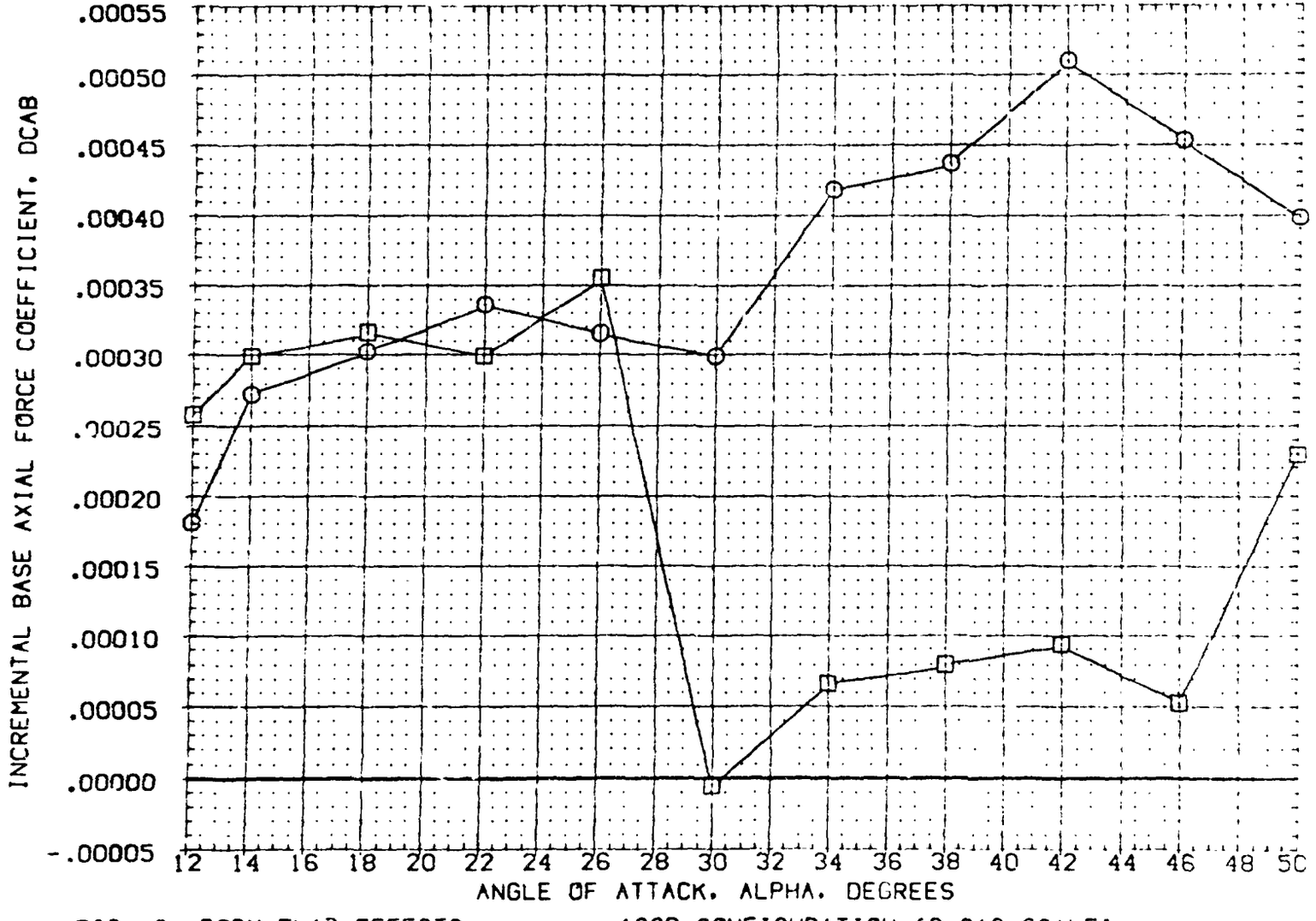


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

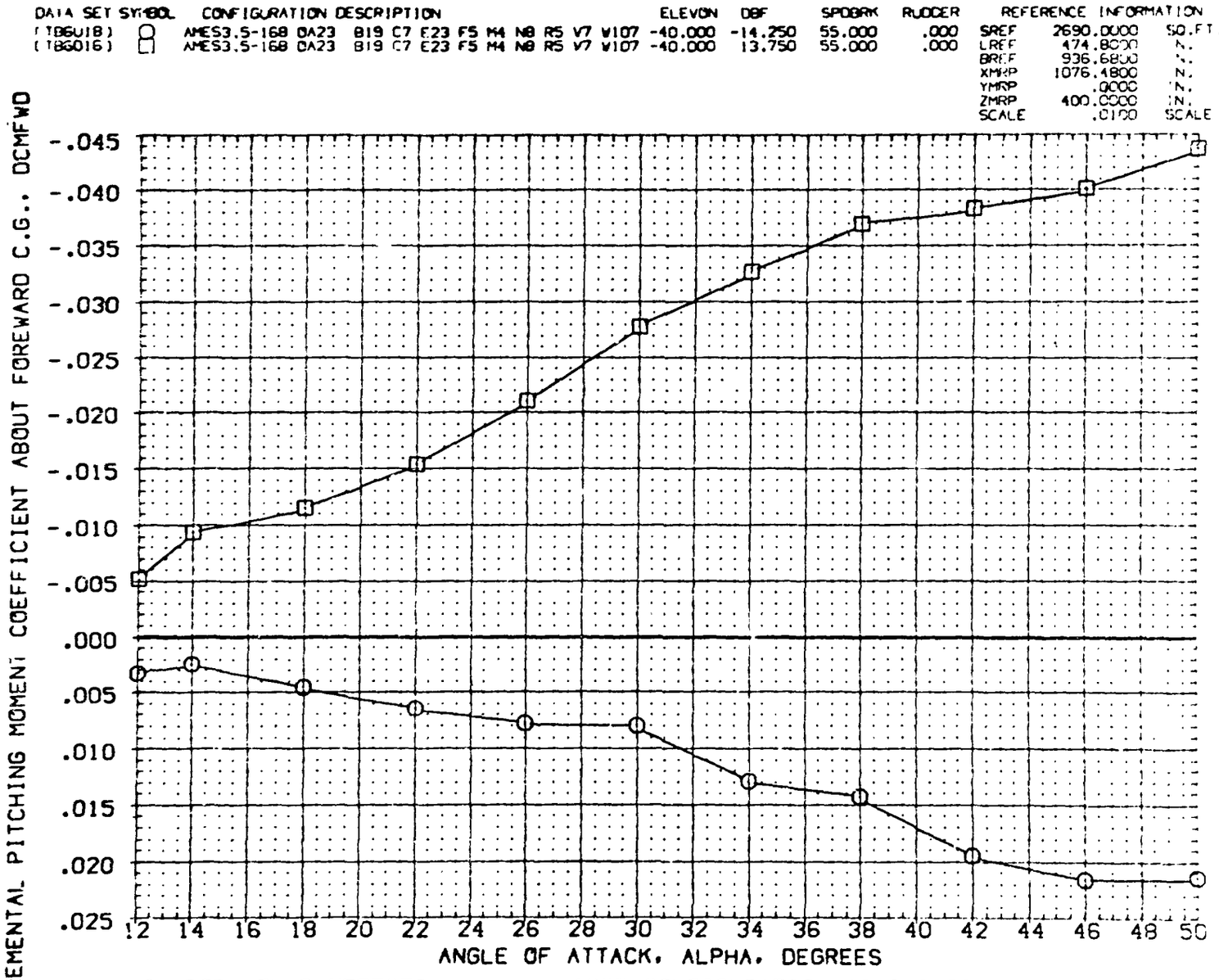


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

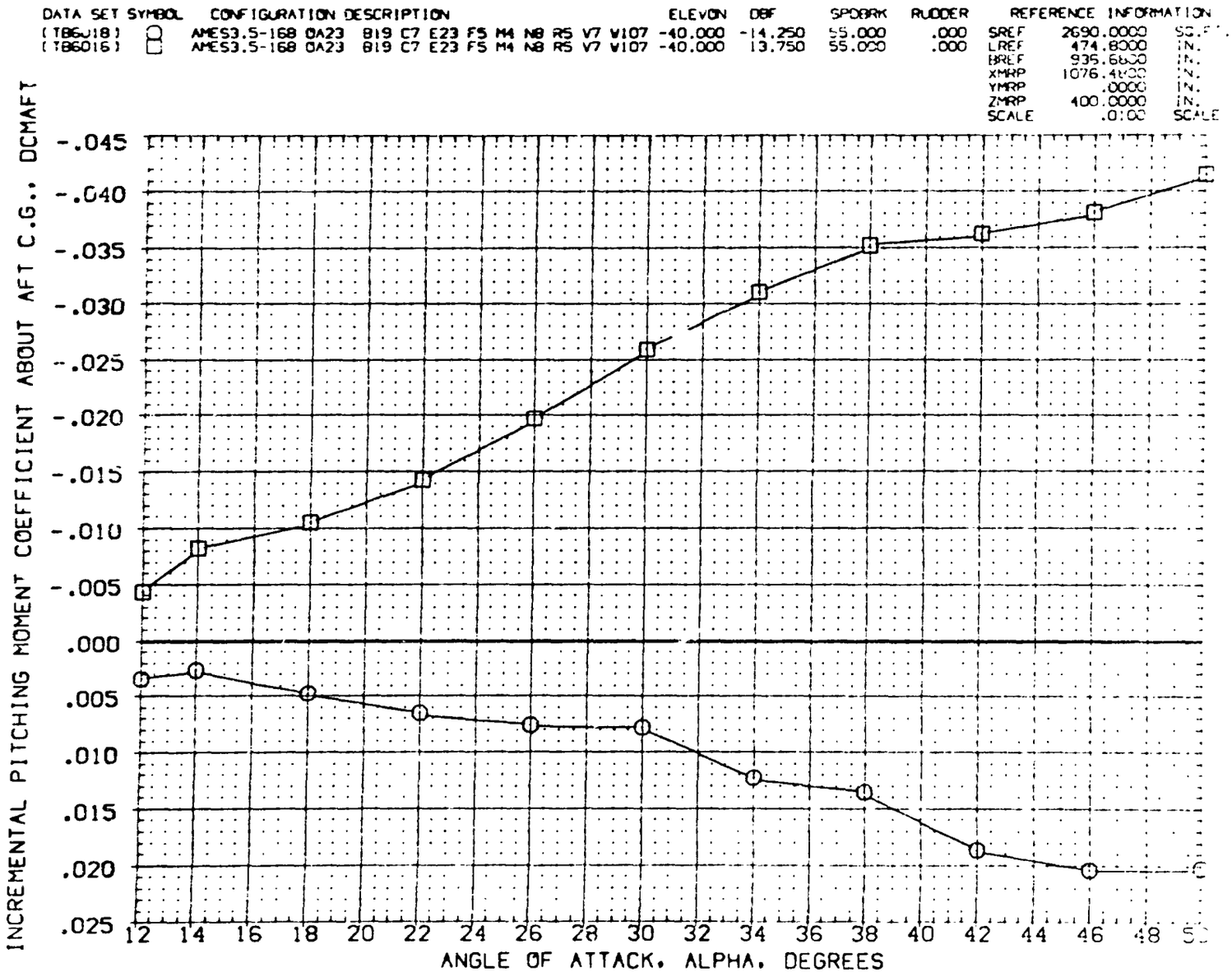


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

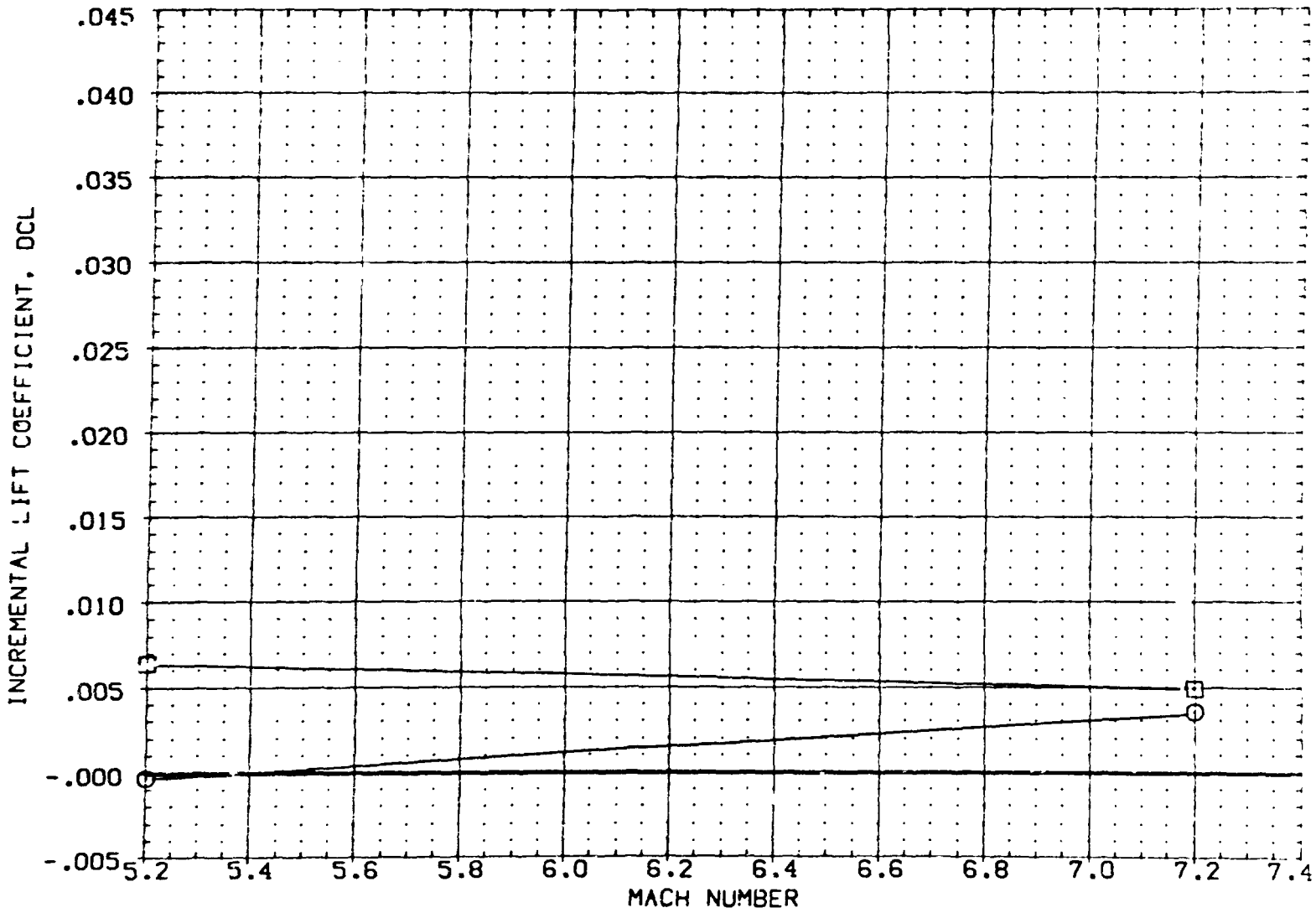


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 2.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOJRK	RUDDER
(J86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(J86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

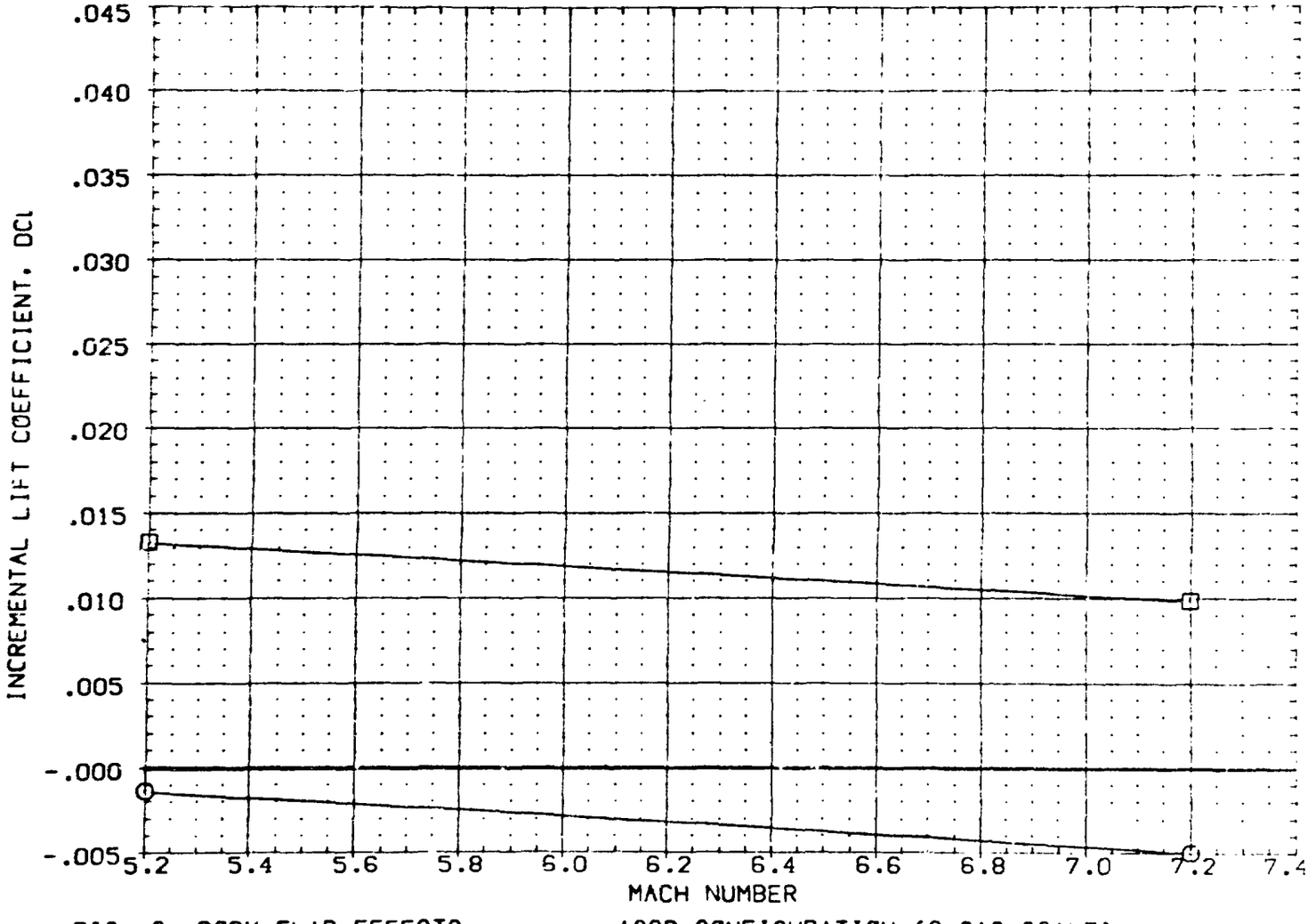


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

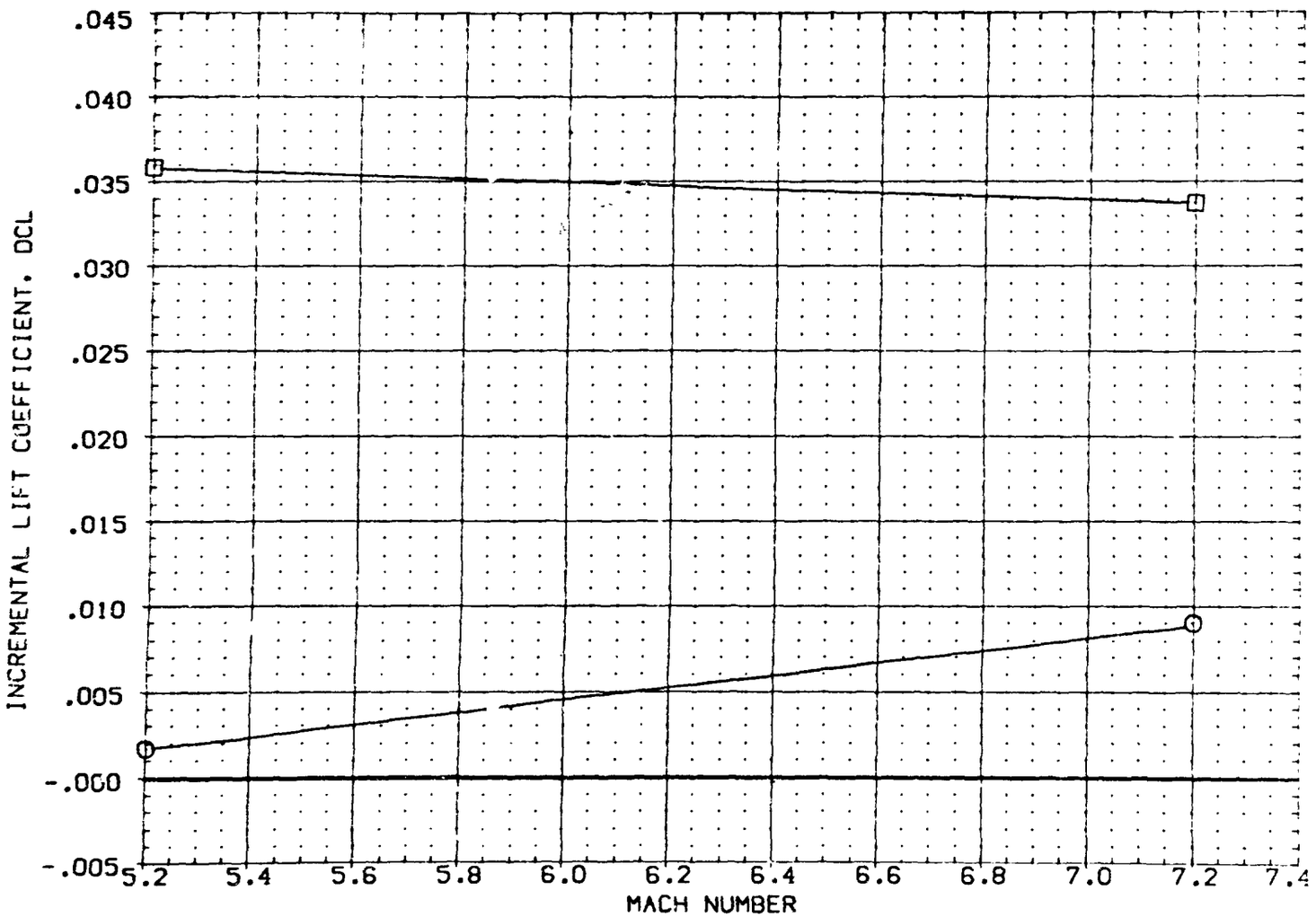


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U860I2)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U860II)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

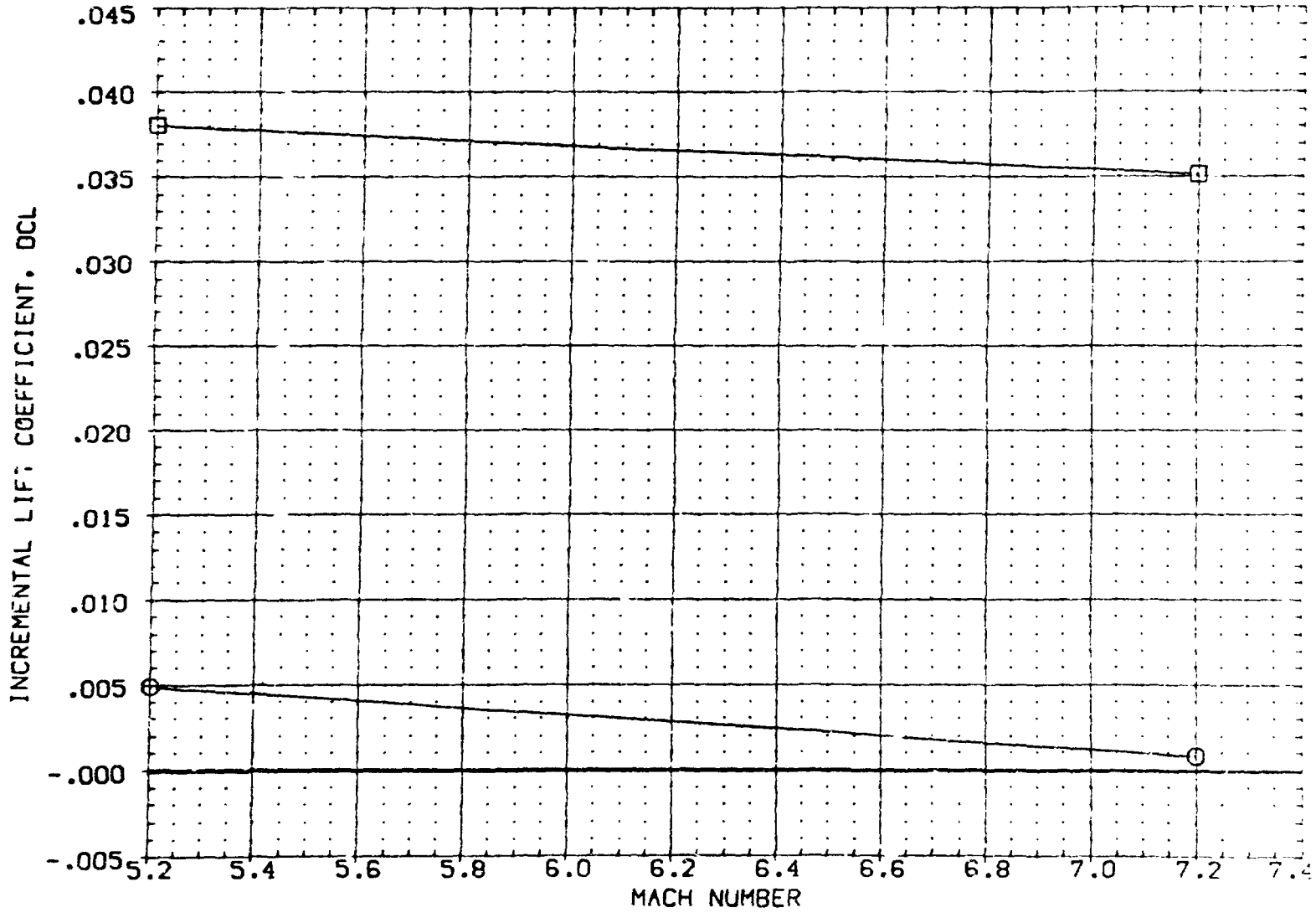


FIG. 8 BODY FLAP EFFECTS 1356 CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

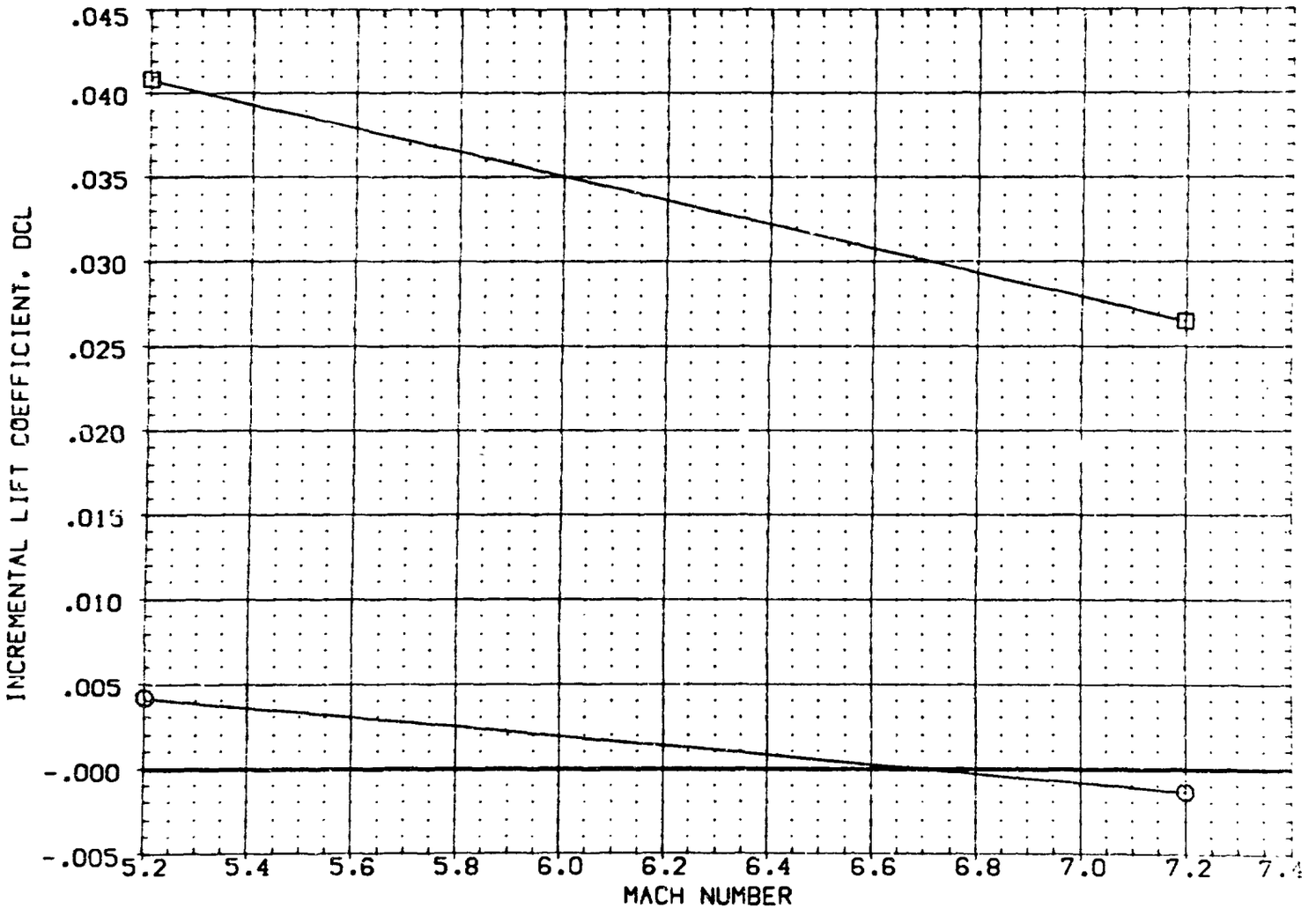


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDEF
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION:		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

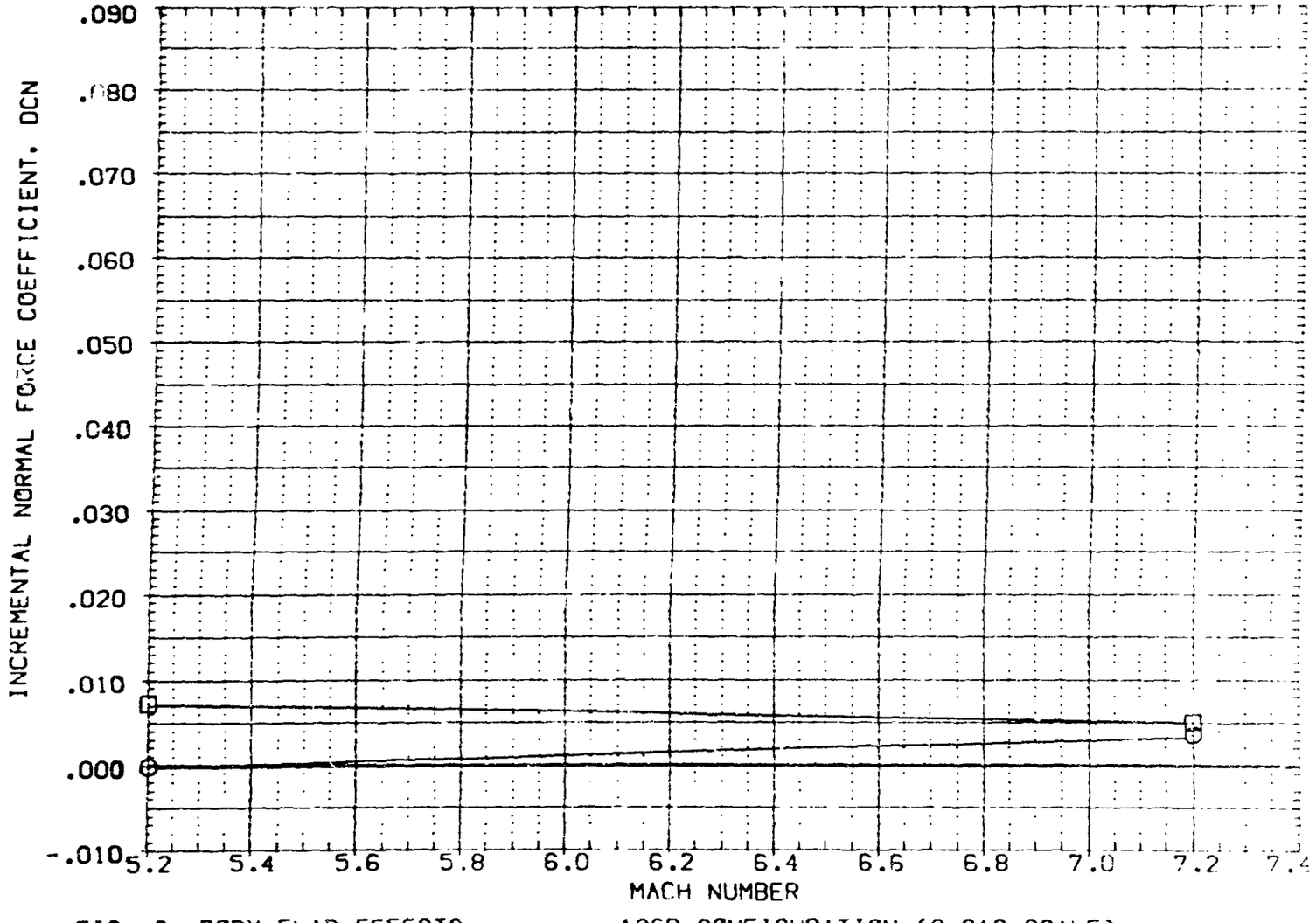


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 FS M' N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 FS M' N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4600	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

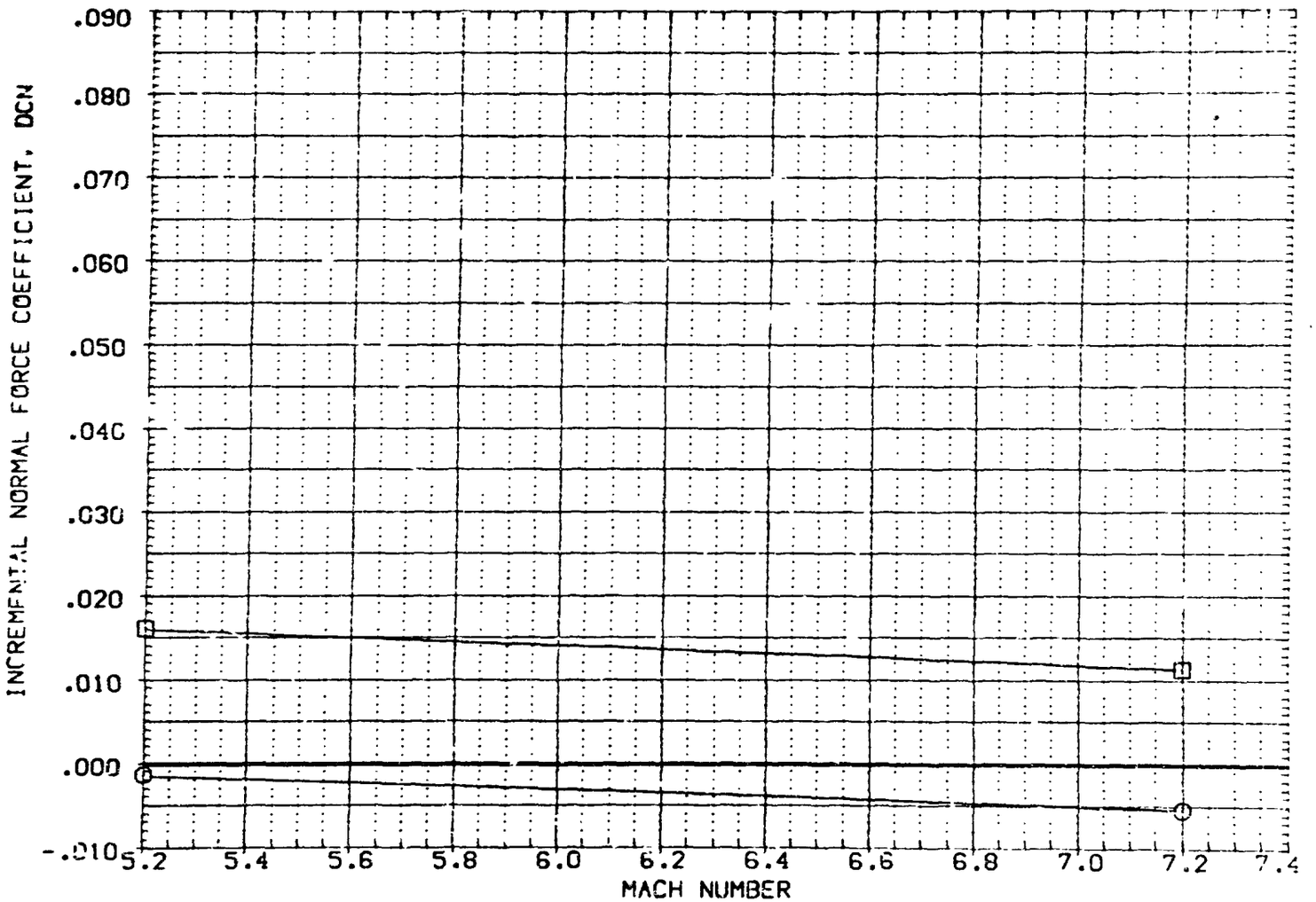


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(J86012)	○	AMES3.5-168 DA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(J86011)	□	AMES3.5-168 DA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION	
SREF	2690.0000
LREF	474.8000
BREF	935.6800
XMRP	1076.4800
YMRP	.0000
ZMRP	400.0000
SCALE	.0100

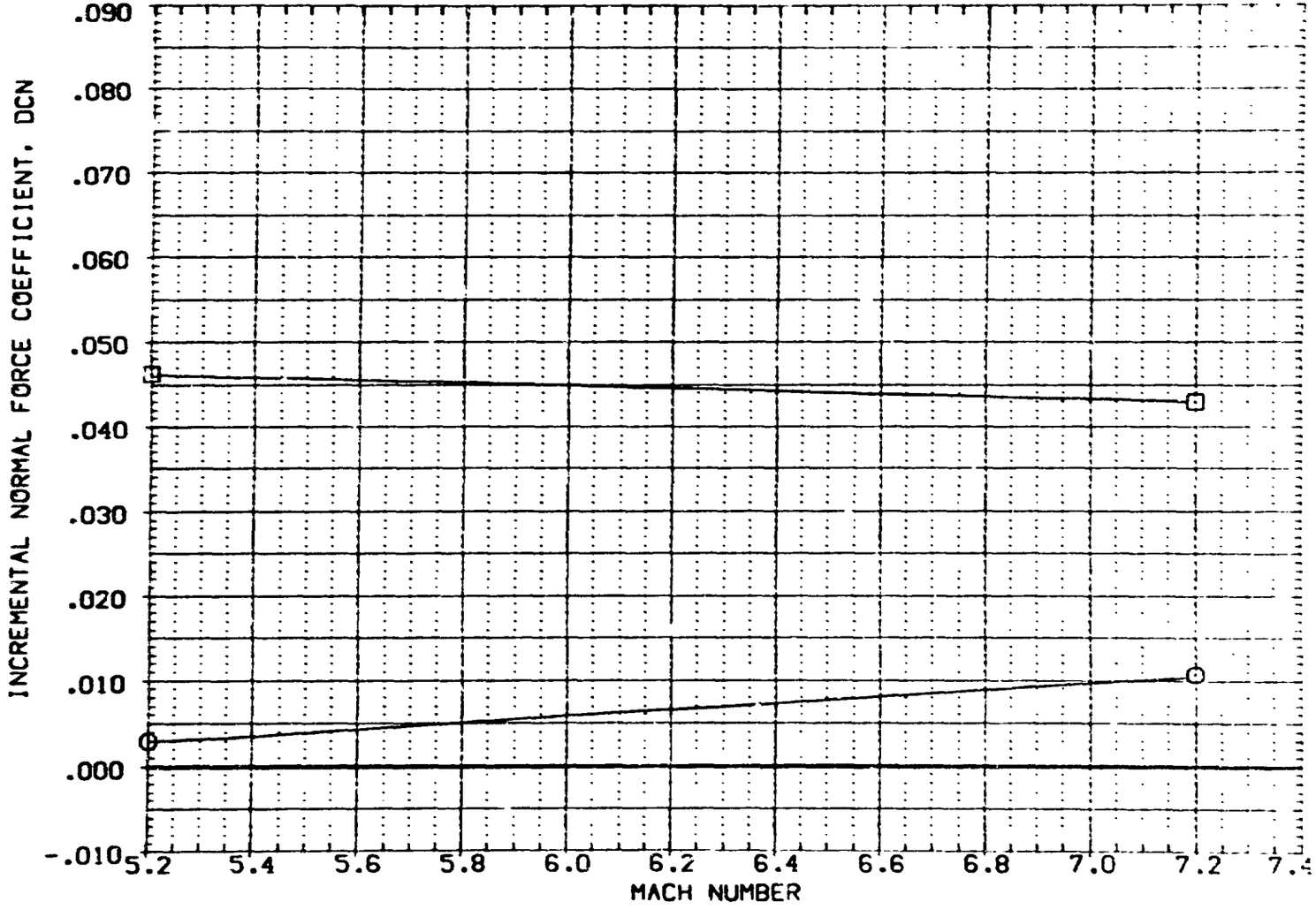


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(UB501(2)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(UB601(1)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

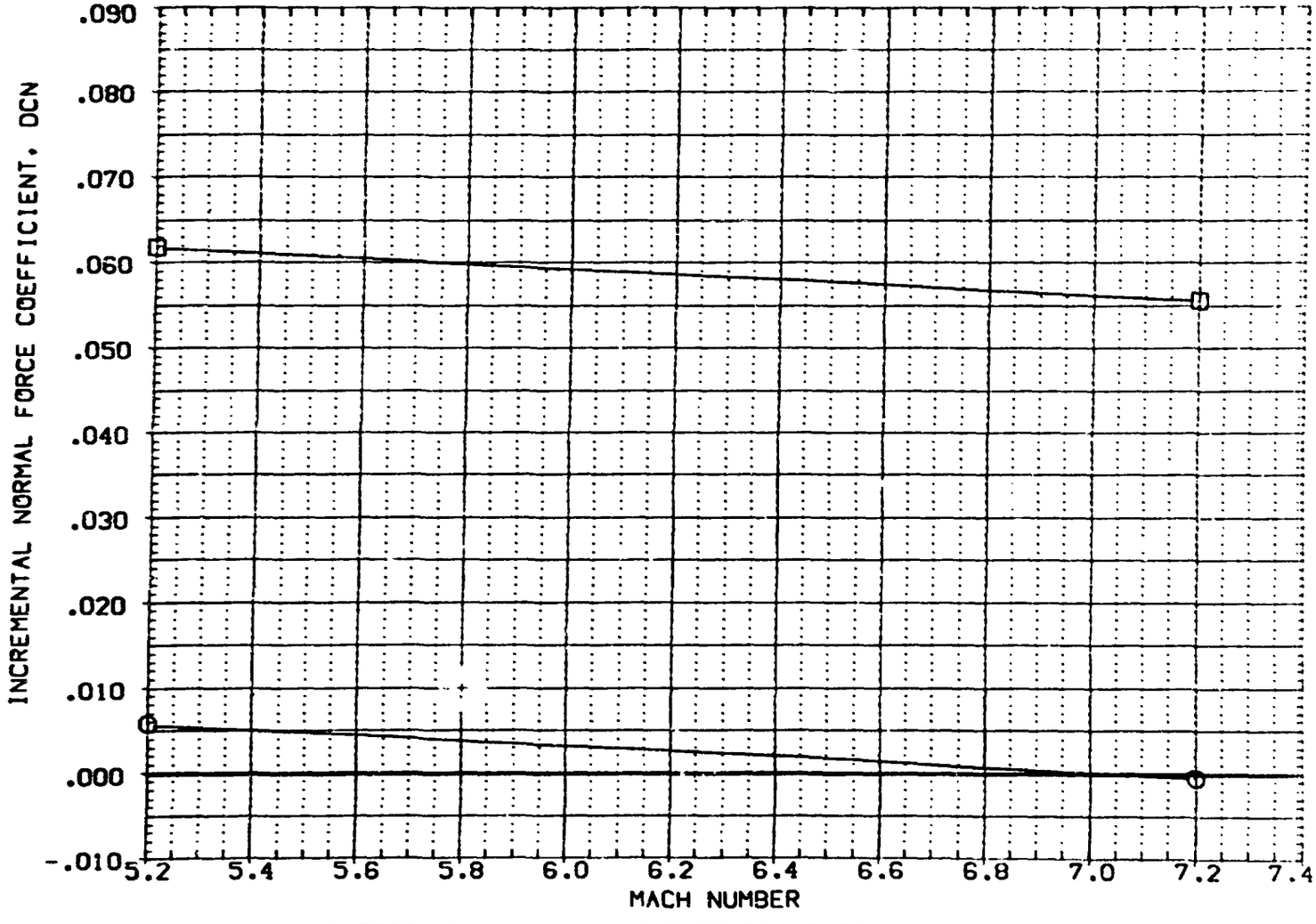


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.6000	IN.
SCALE	.0100	SCALE

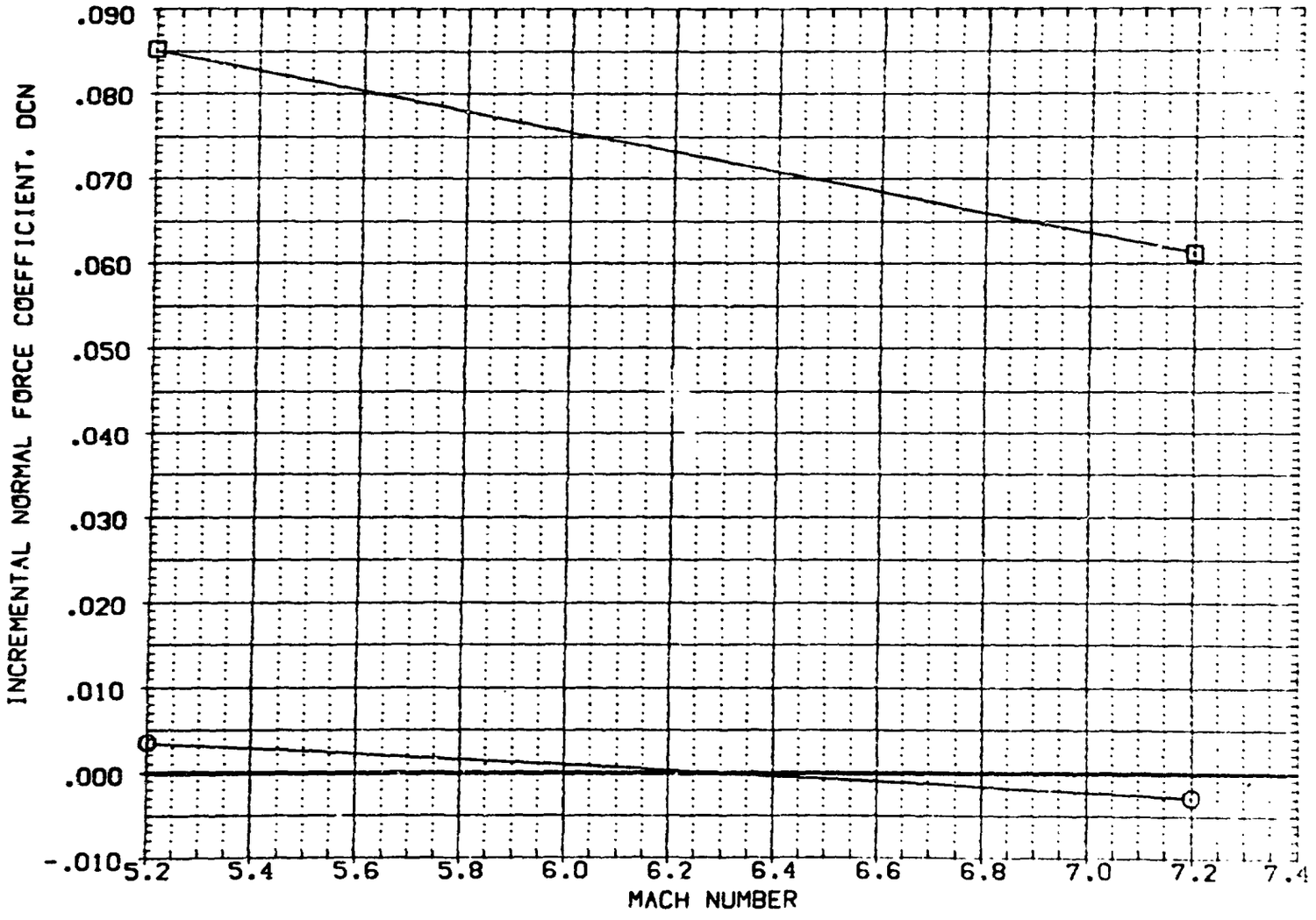


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(J86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(J86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

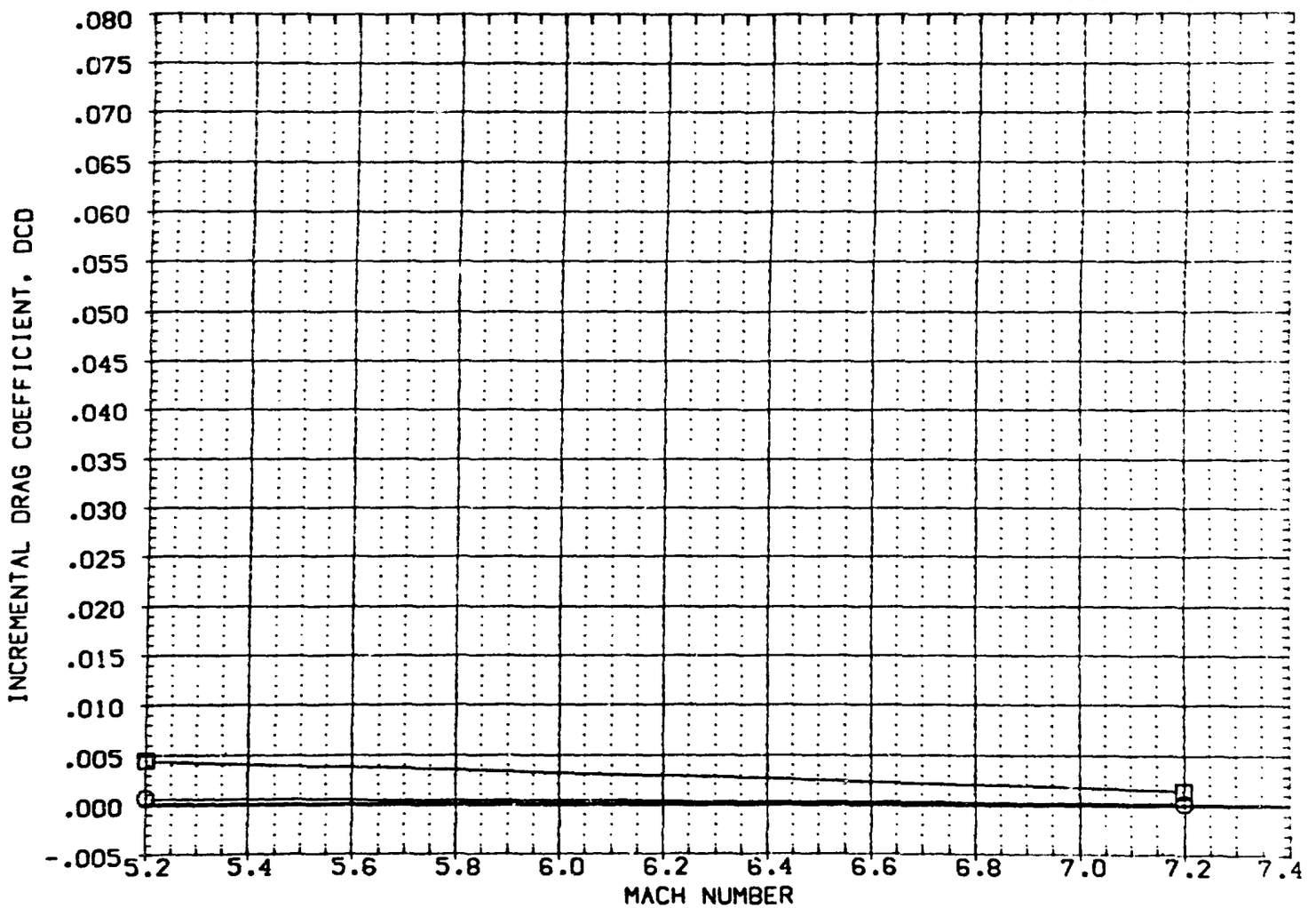


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

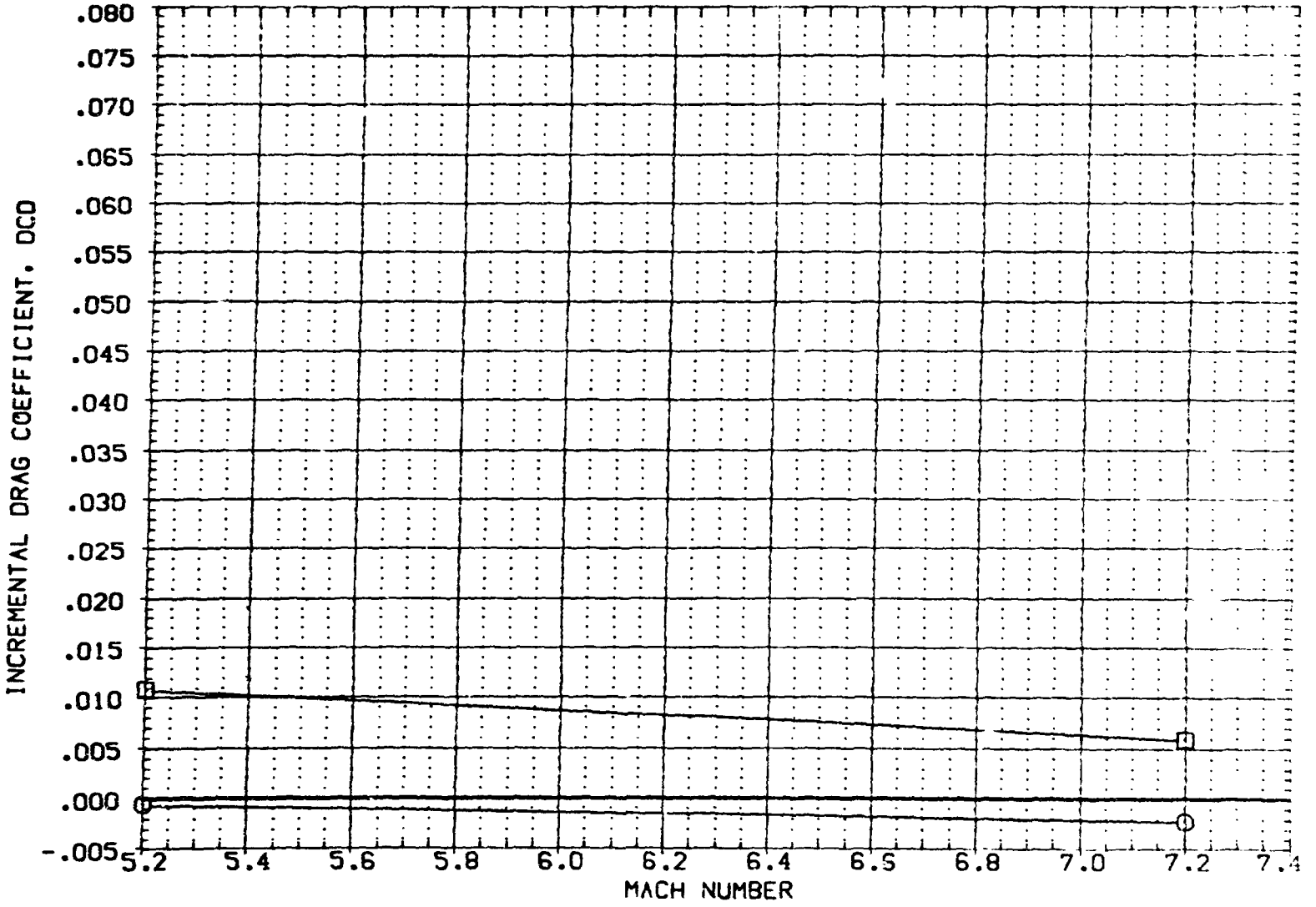


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

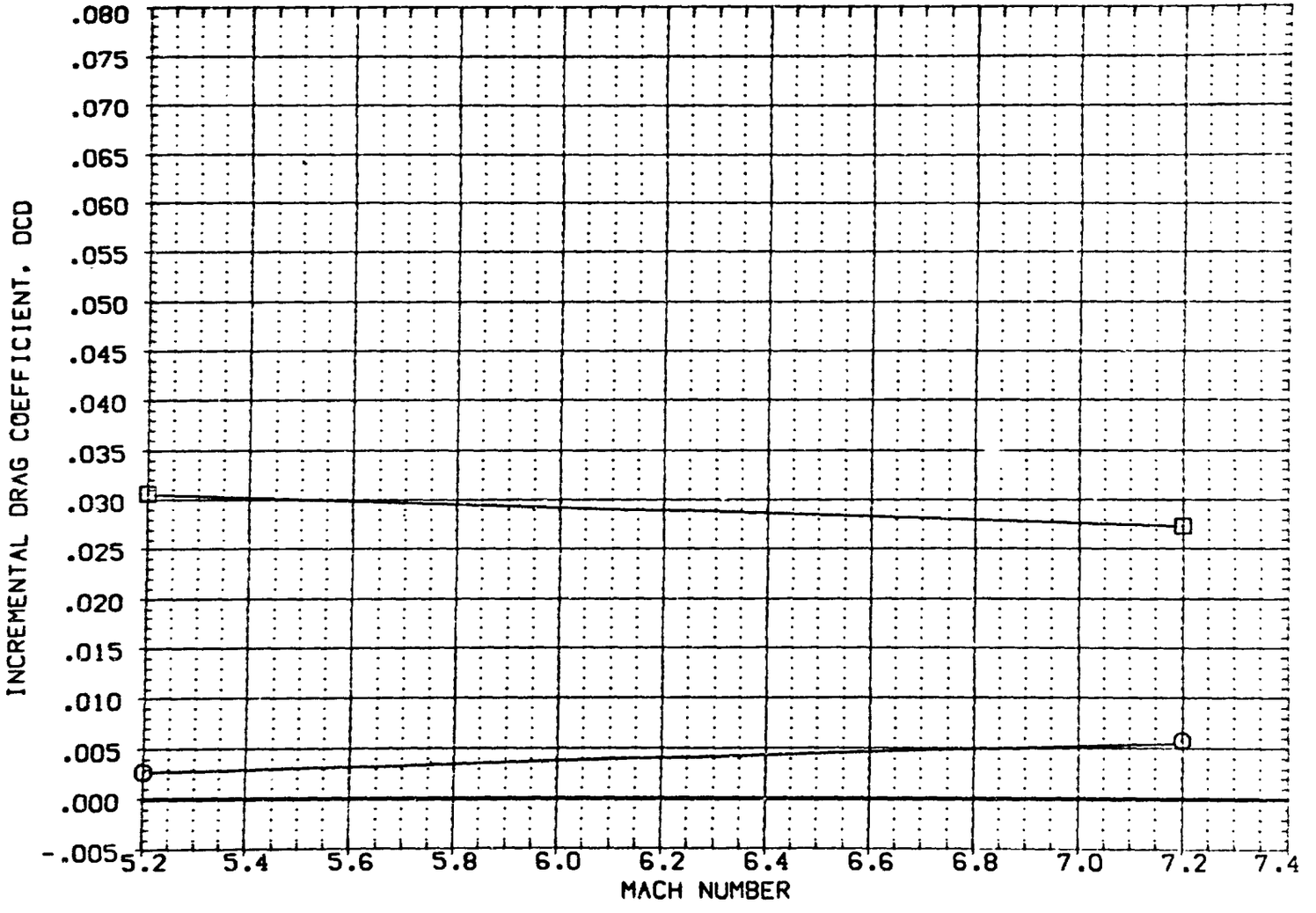


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012) ○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011) □	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

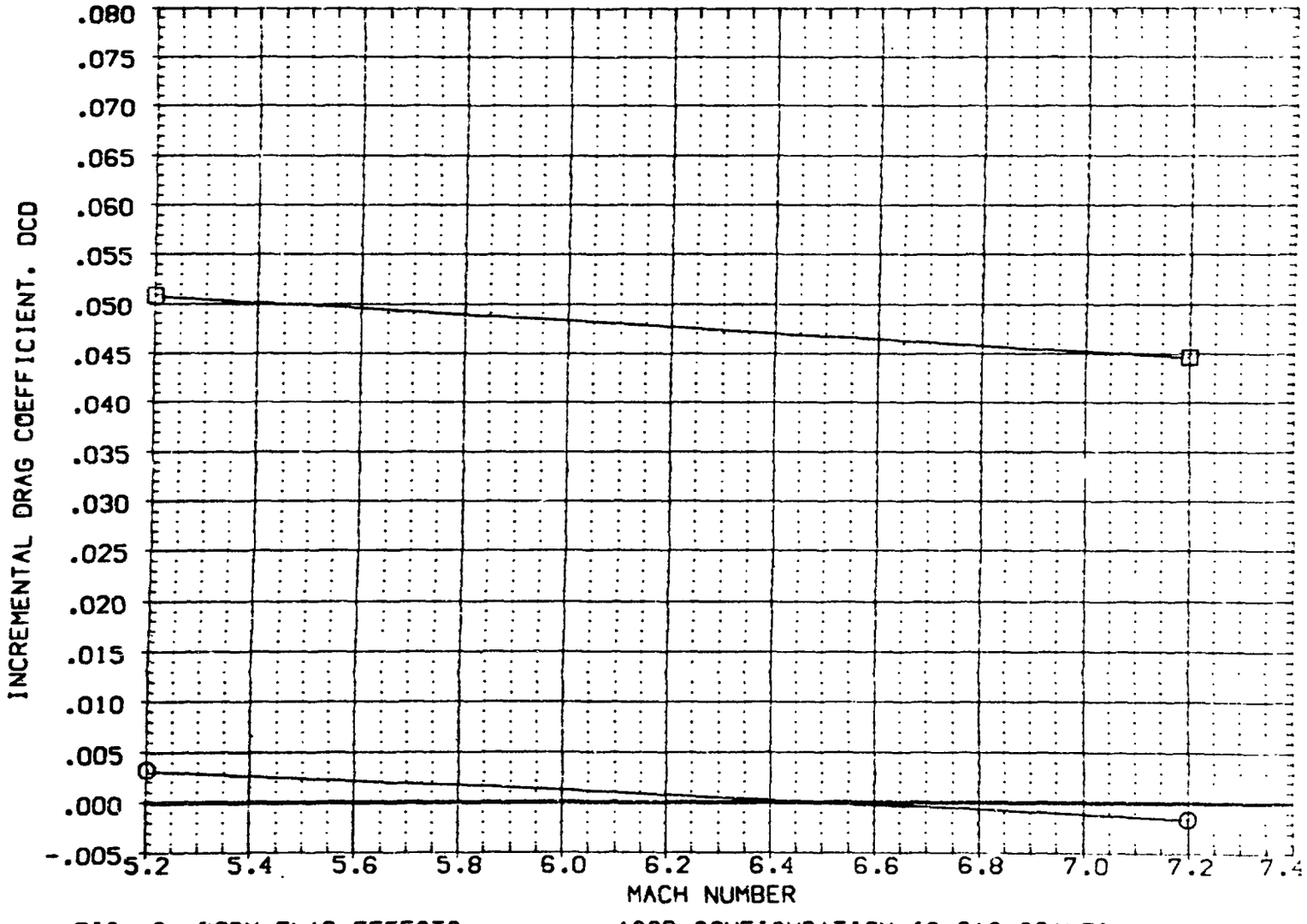


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	⊠	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 RS V7 W107	.000	-14.250	55.000	.000
(U86011)	⊟	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 RS V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

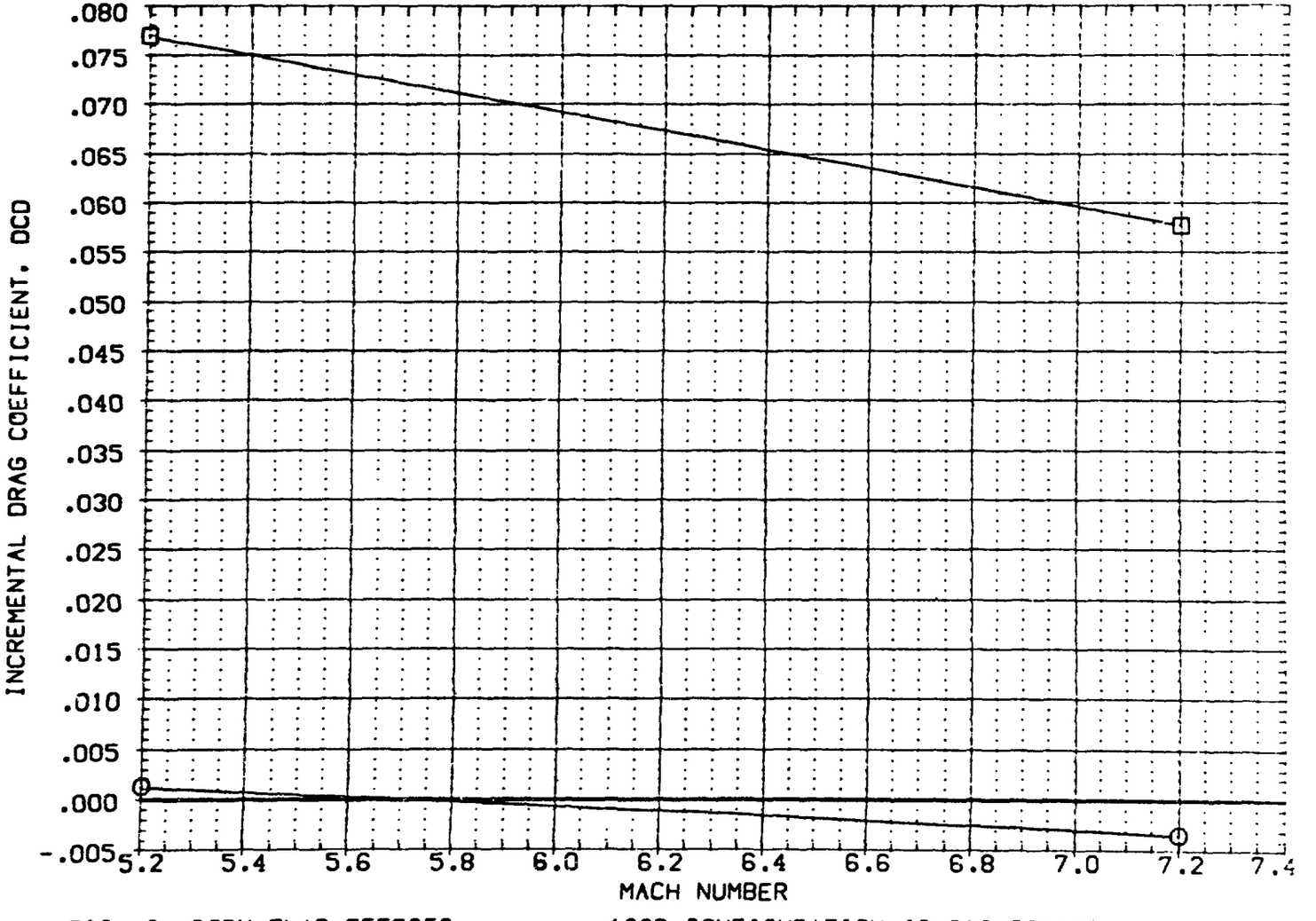


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

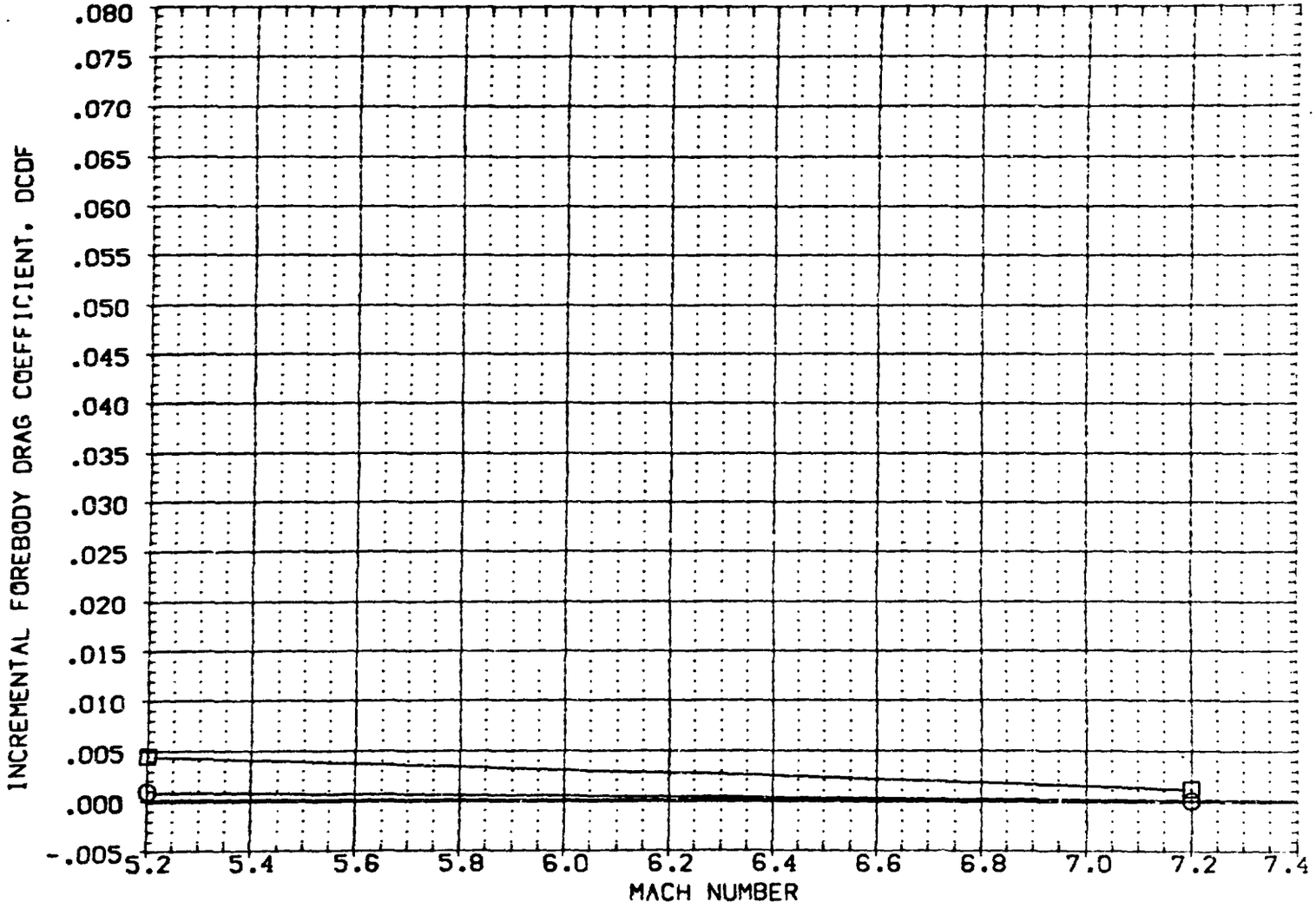


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

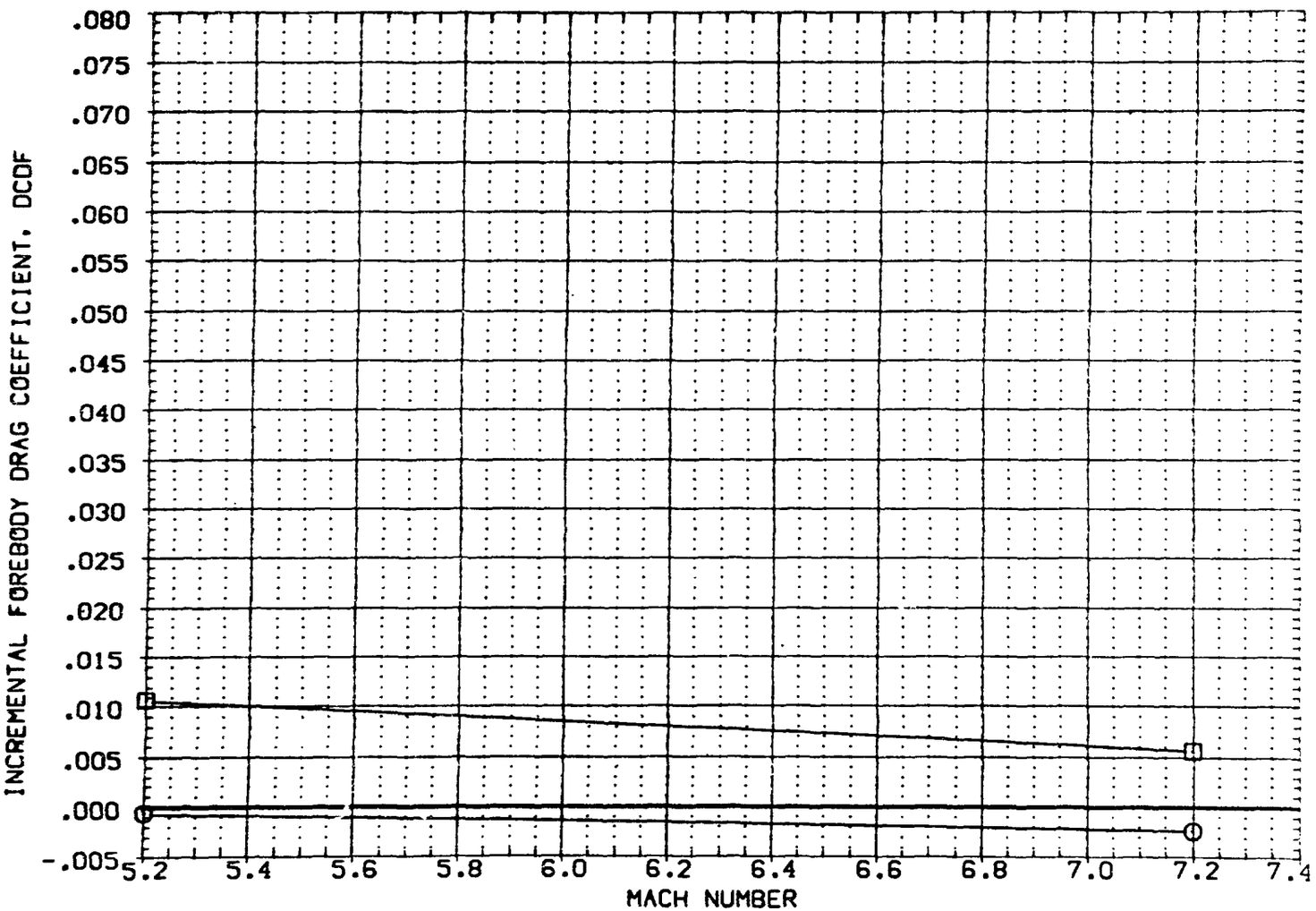


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	8	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	8	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

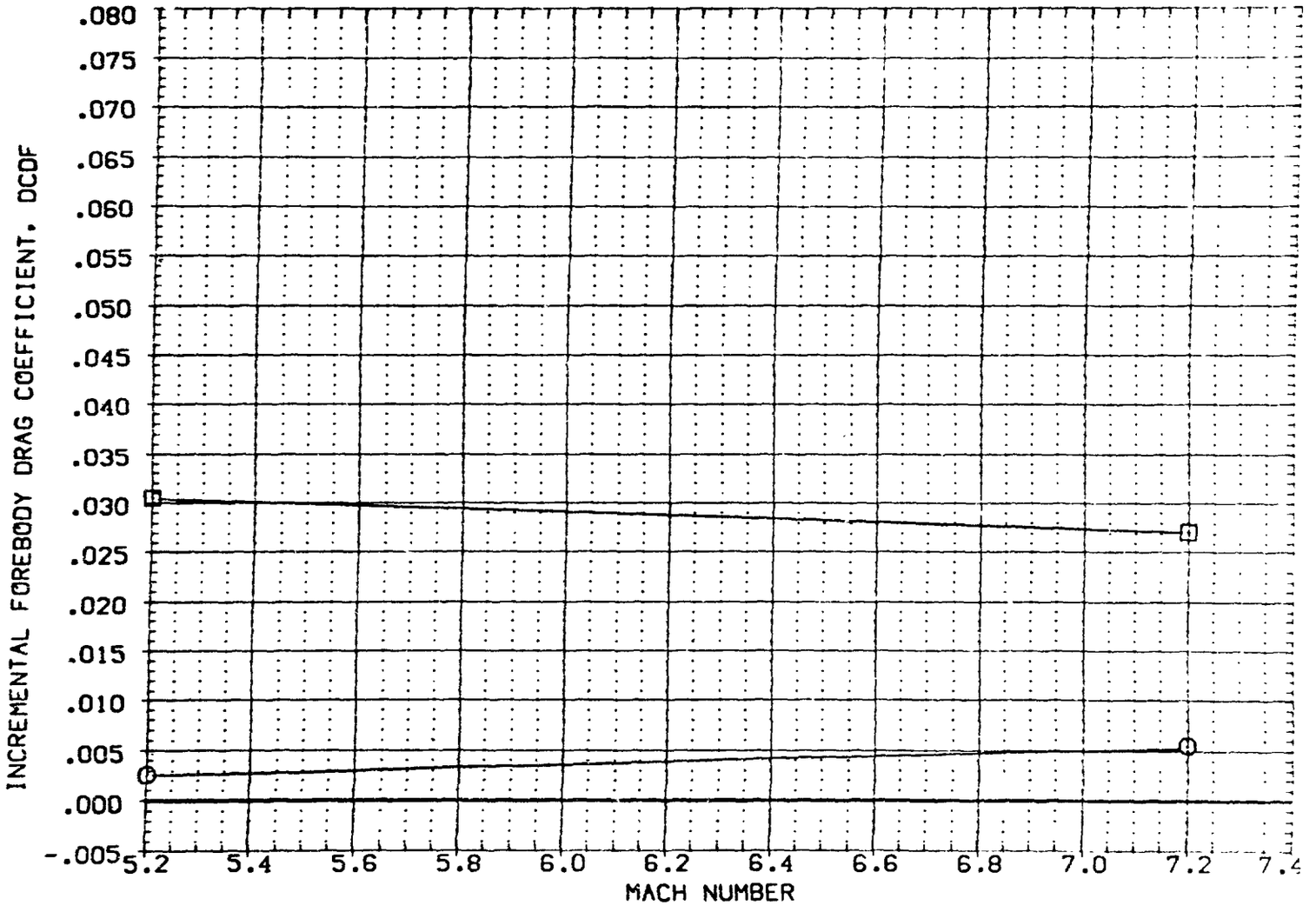


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE)

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

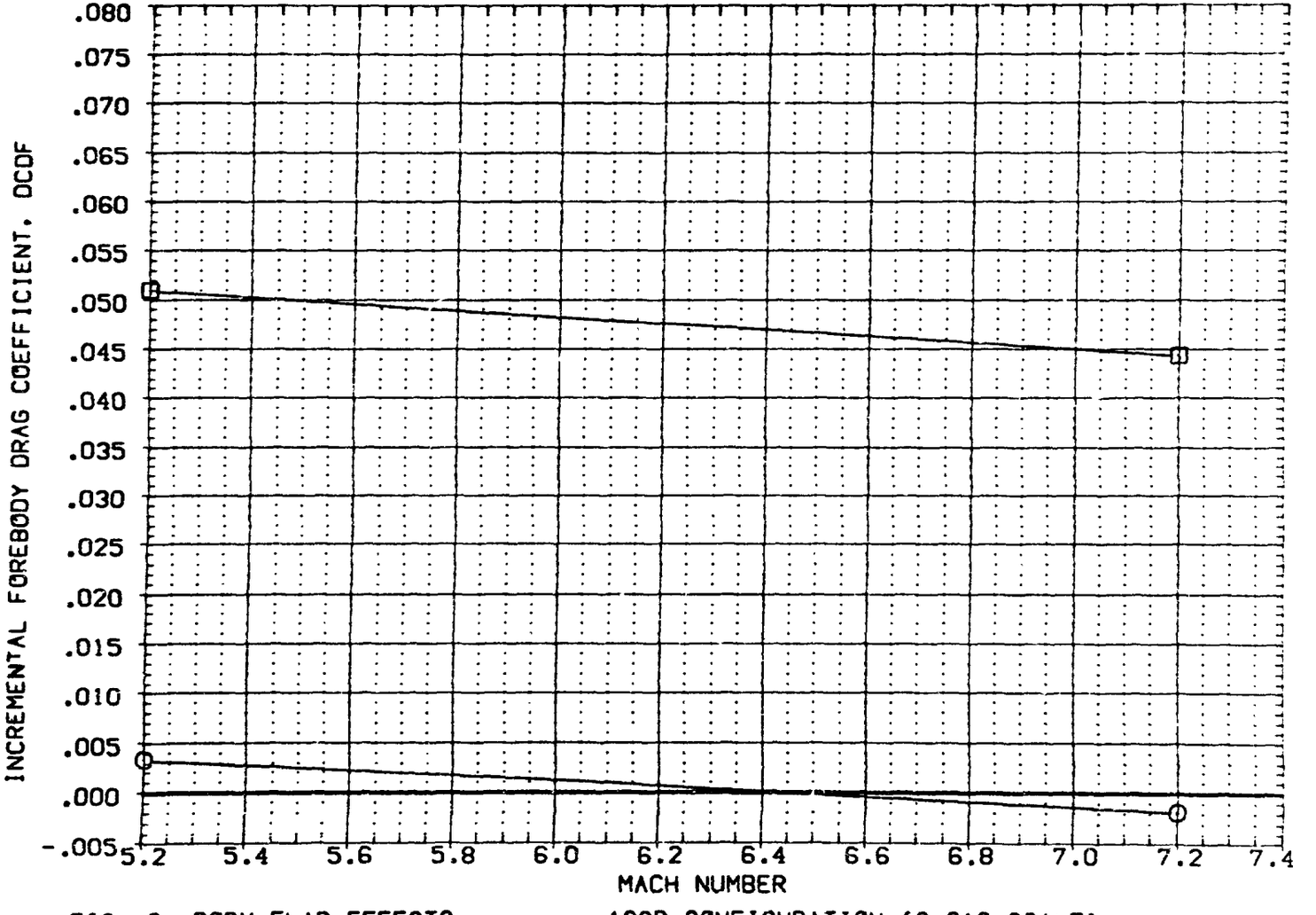


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	460.0000	IN.
SCALE	1.0000	SCALE

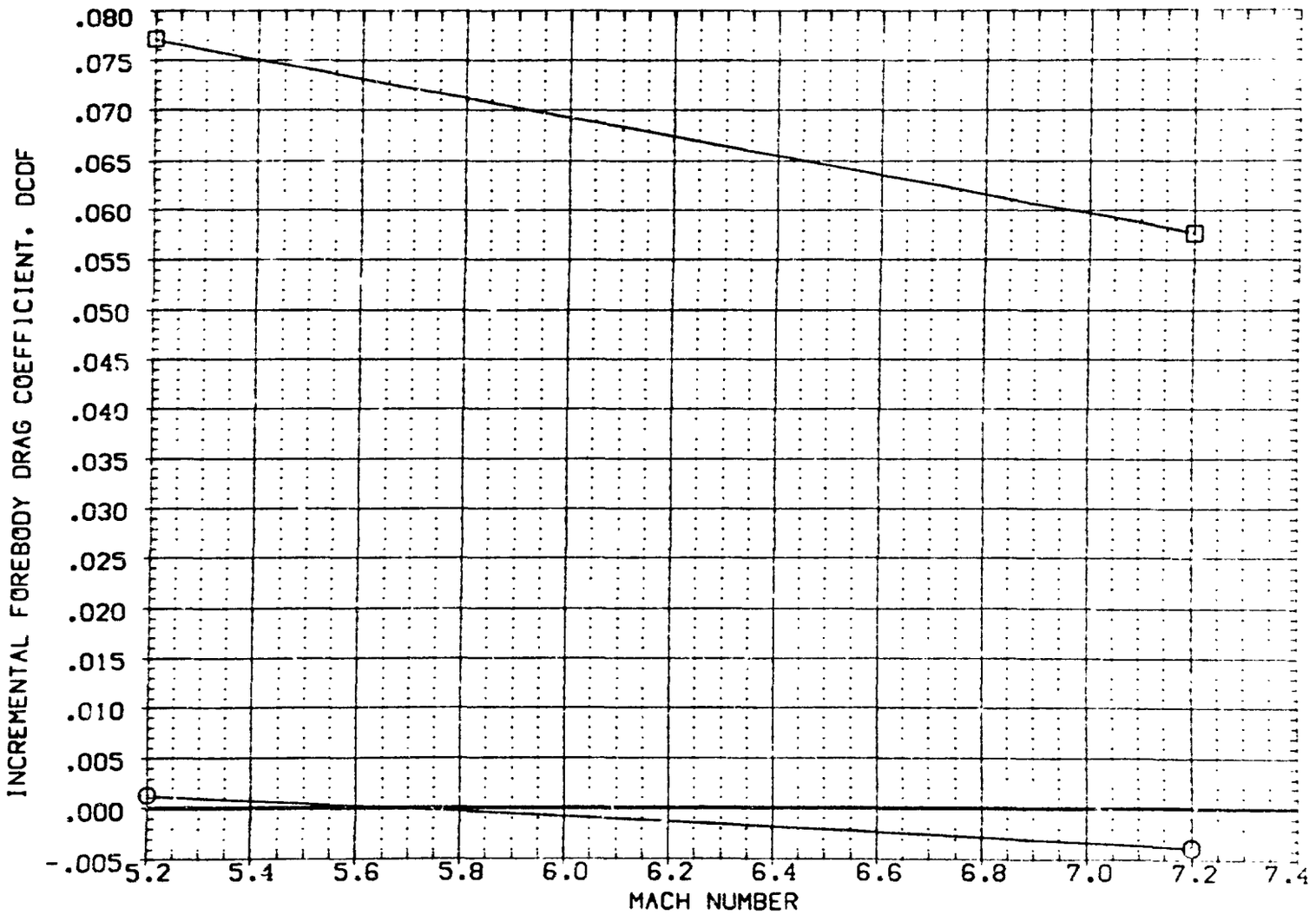


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(L86012)	○	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(L86011)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

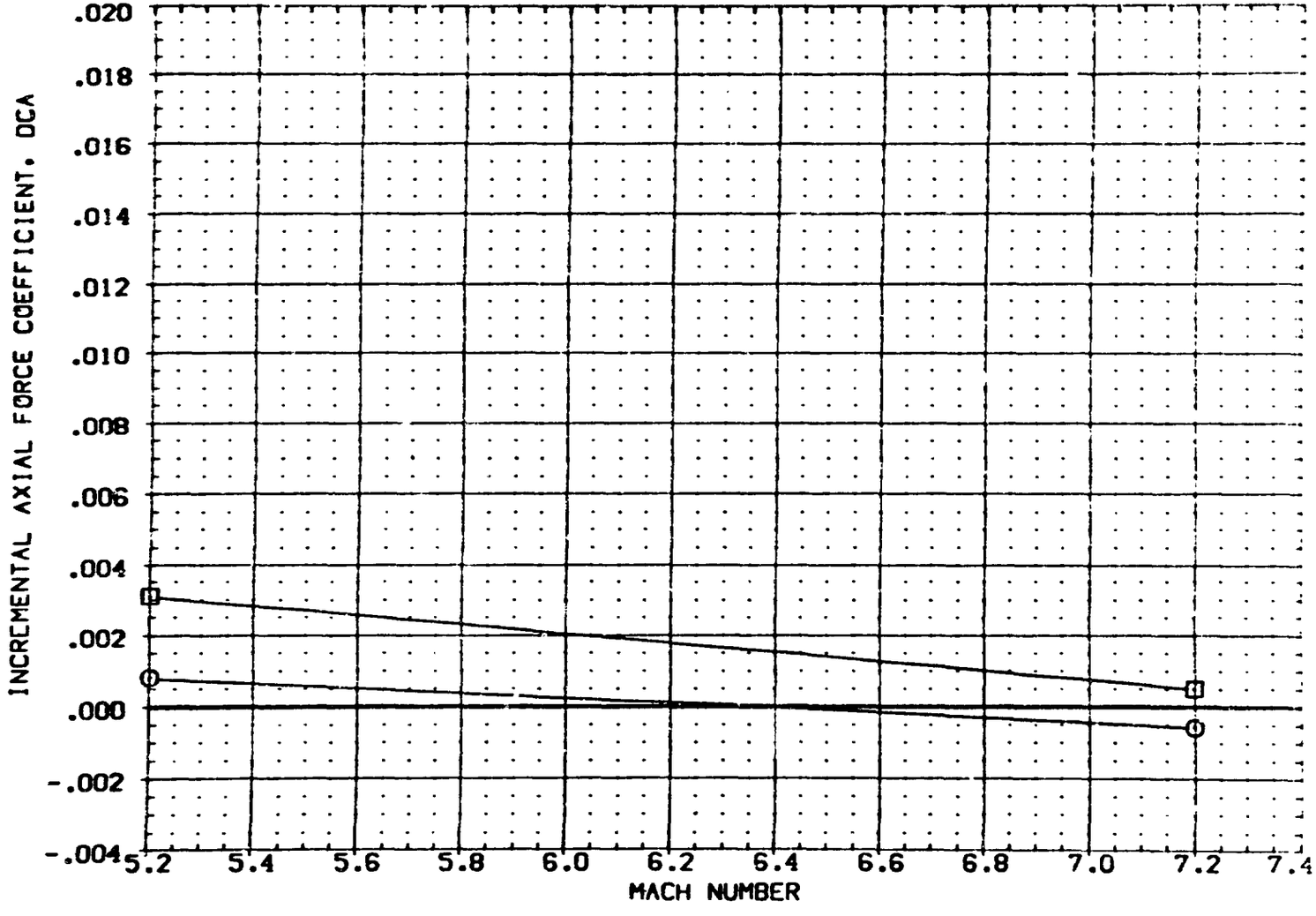


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(UBGN12)		AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(UBGU11)		AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

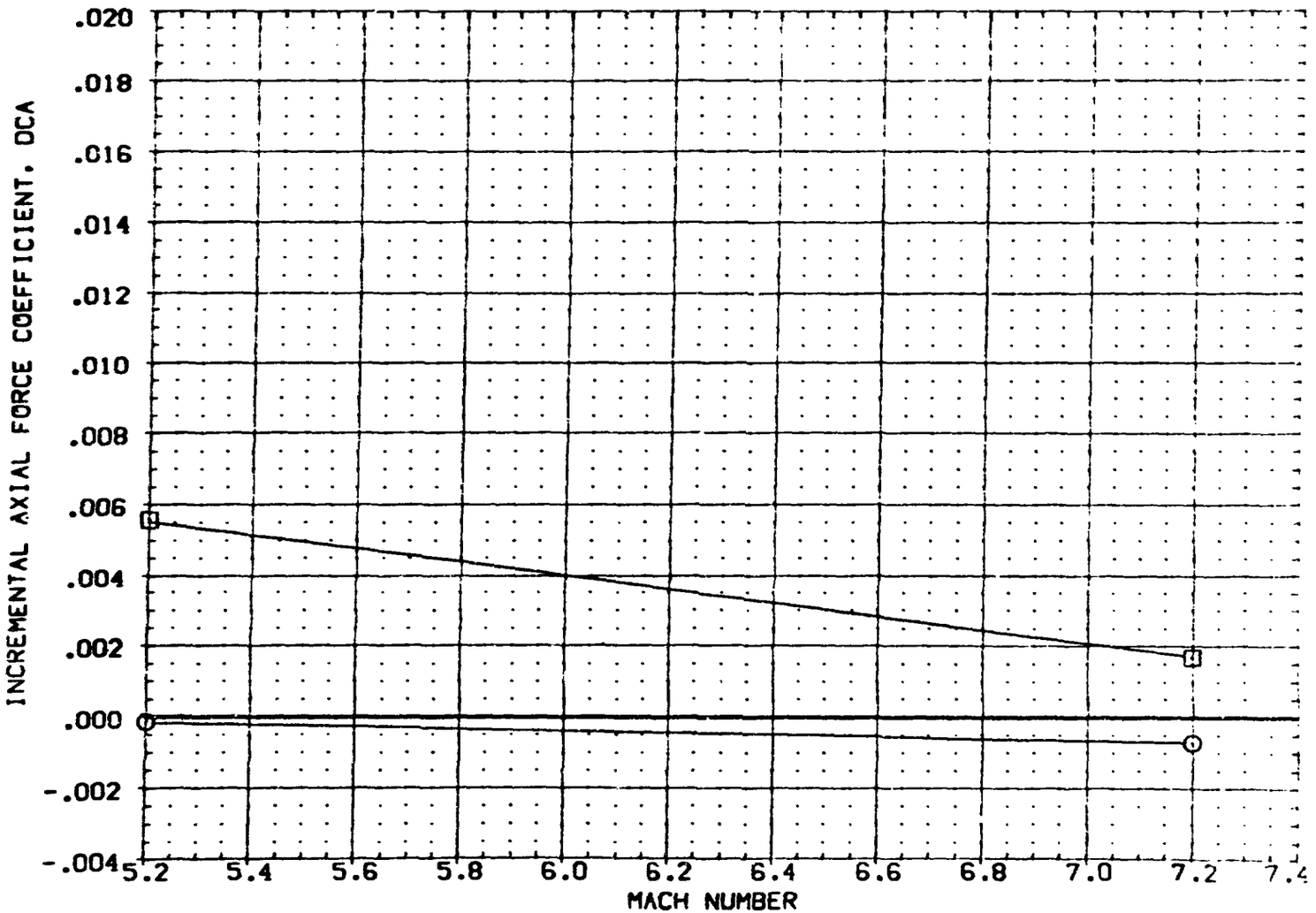


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)		AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)		AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

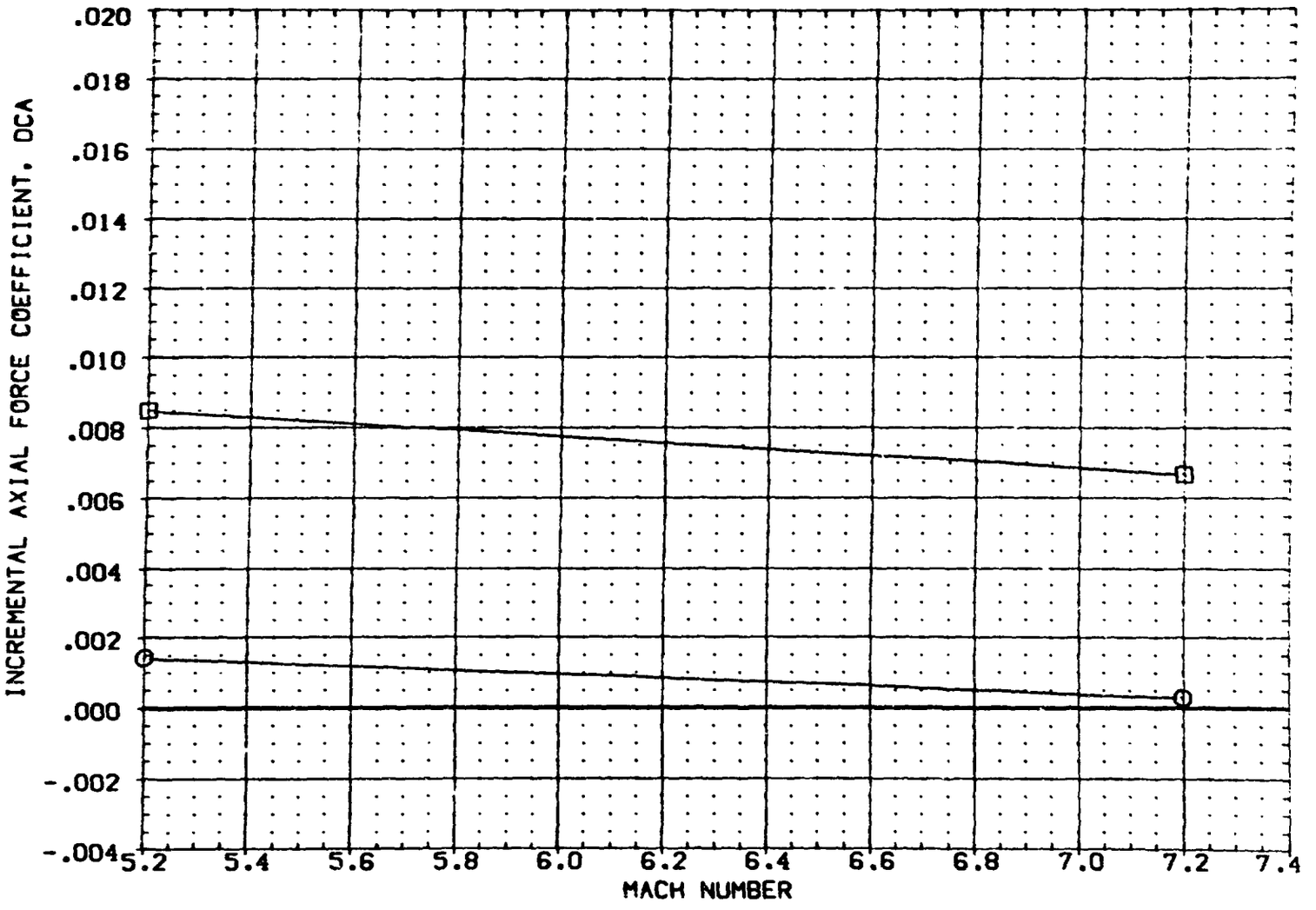


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SE.	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

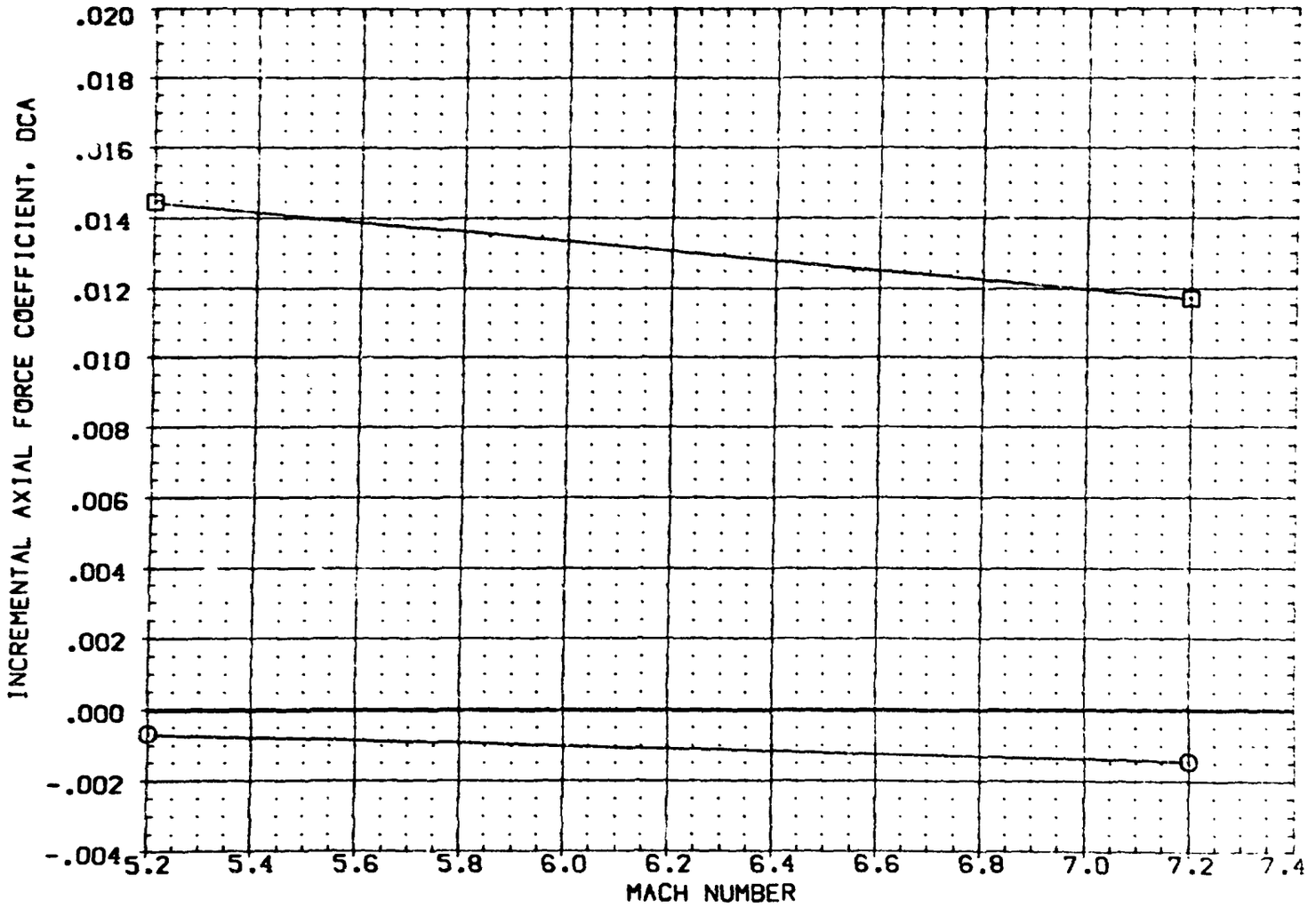


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

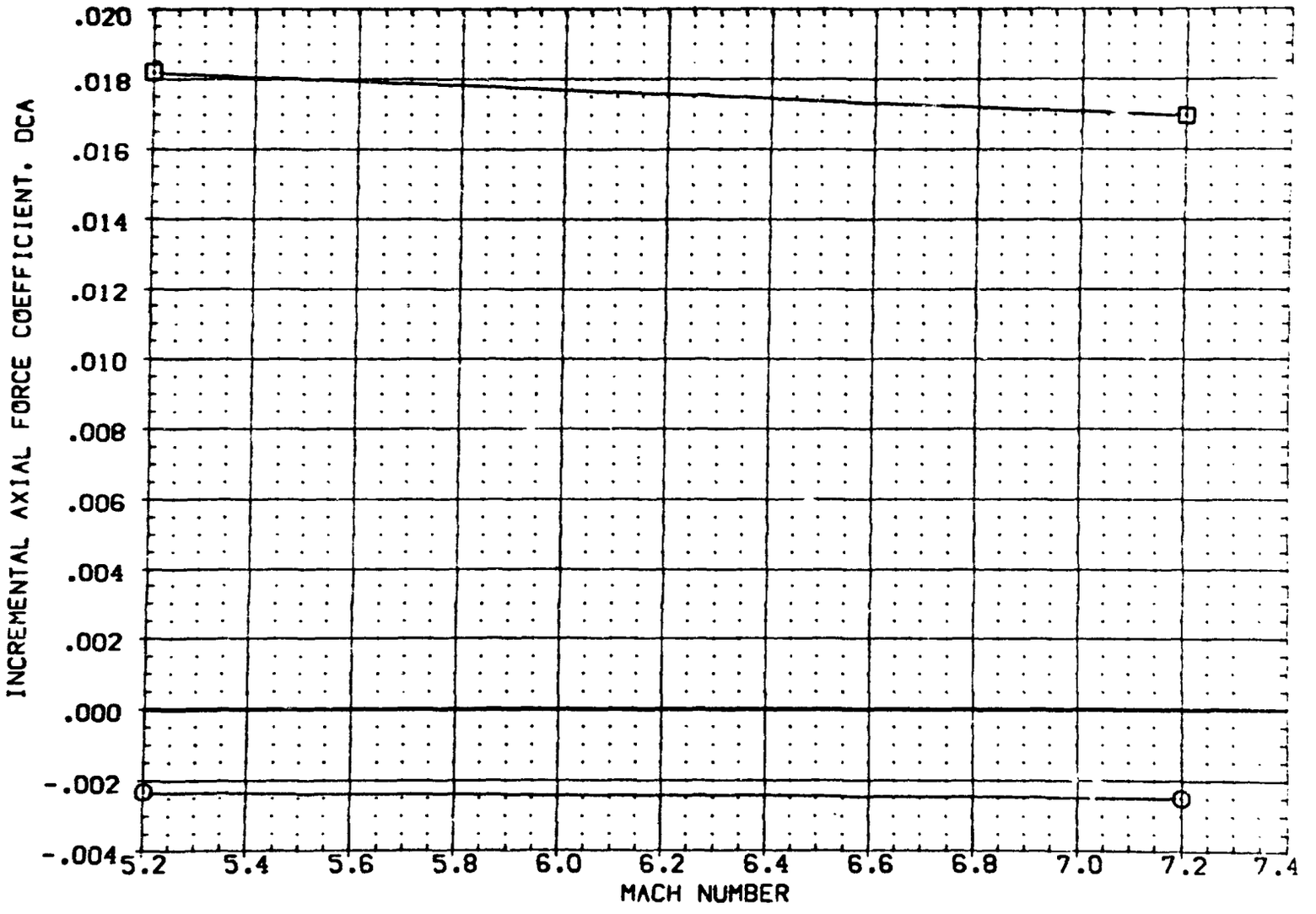


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

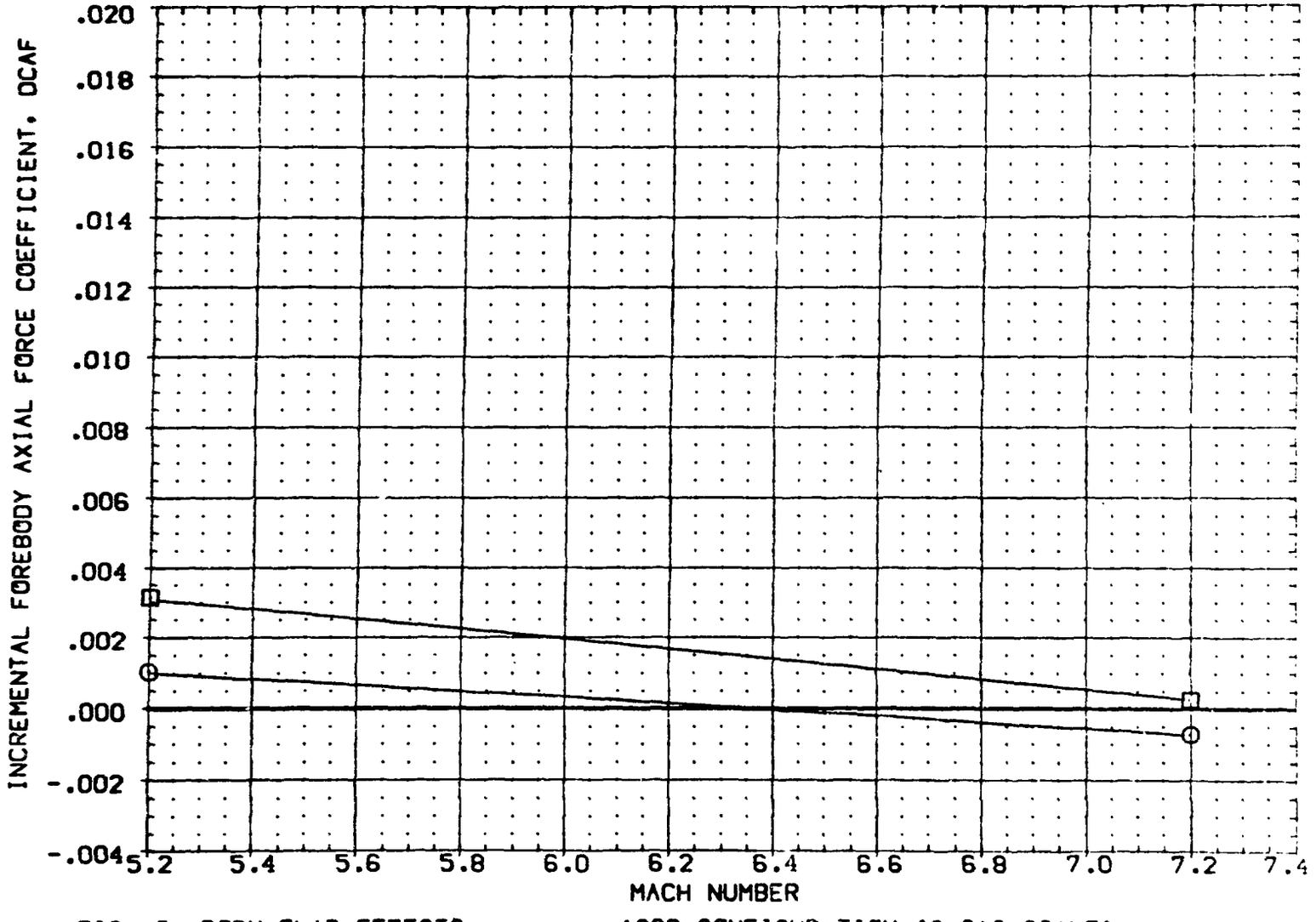


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	[illegible].750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

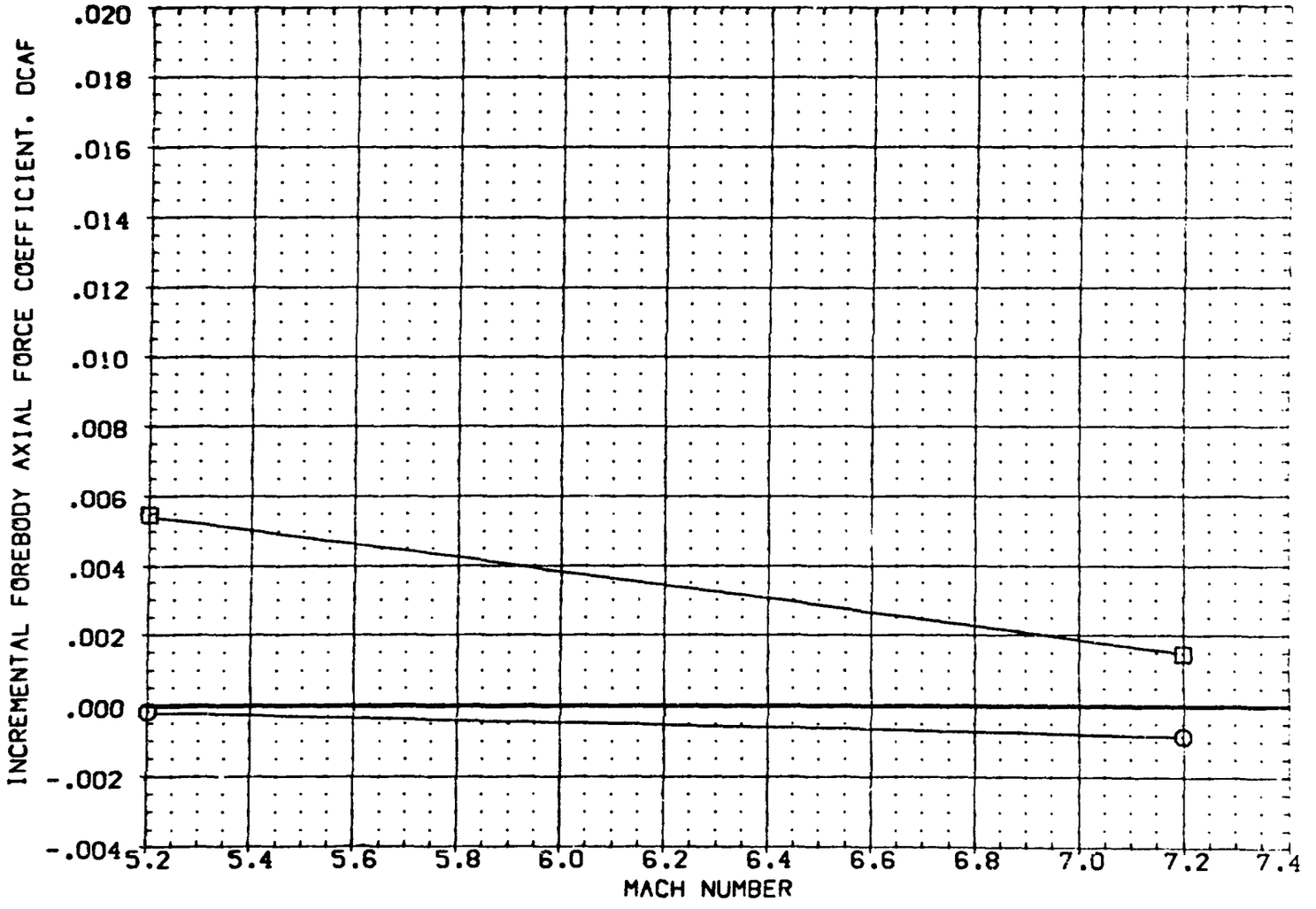


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	⊡	[illegible]3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	[illegible]S3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

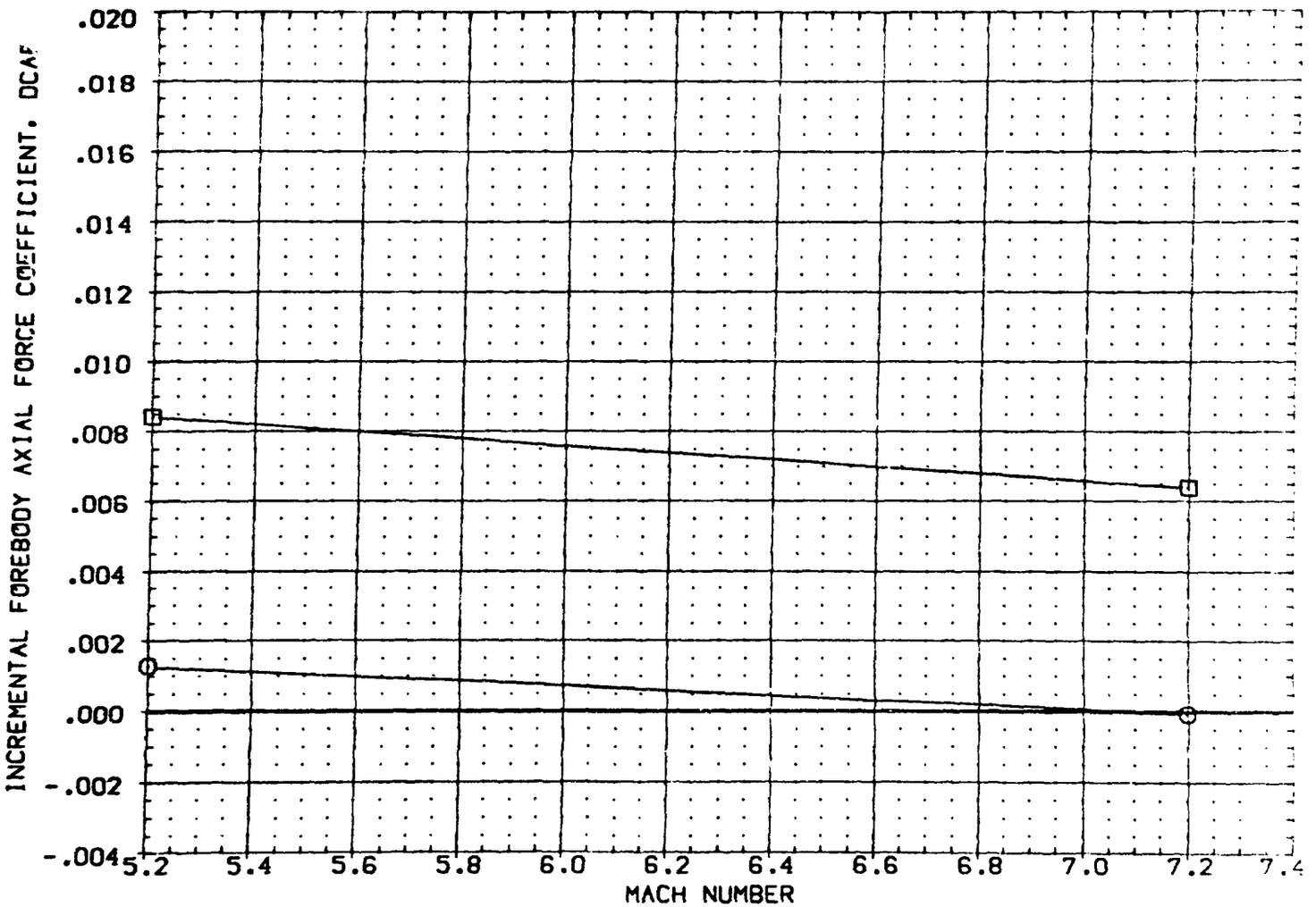


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

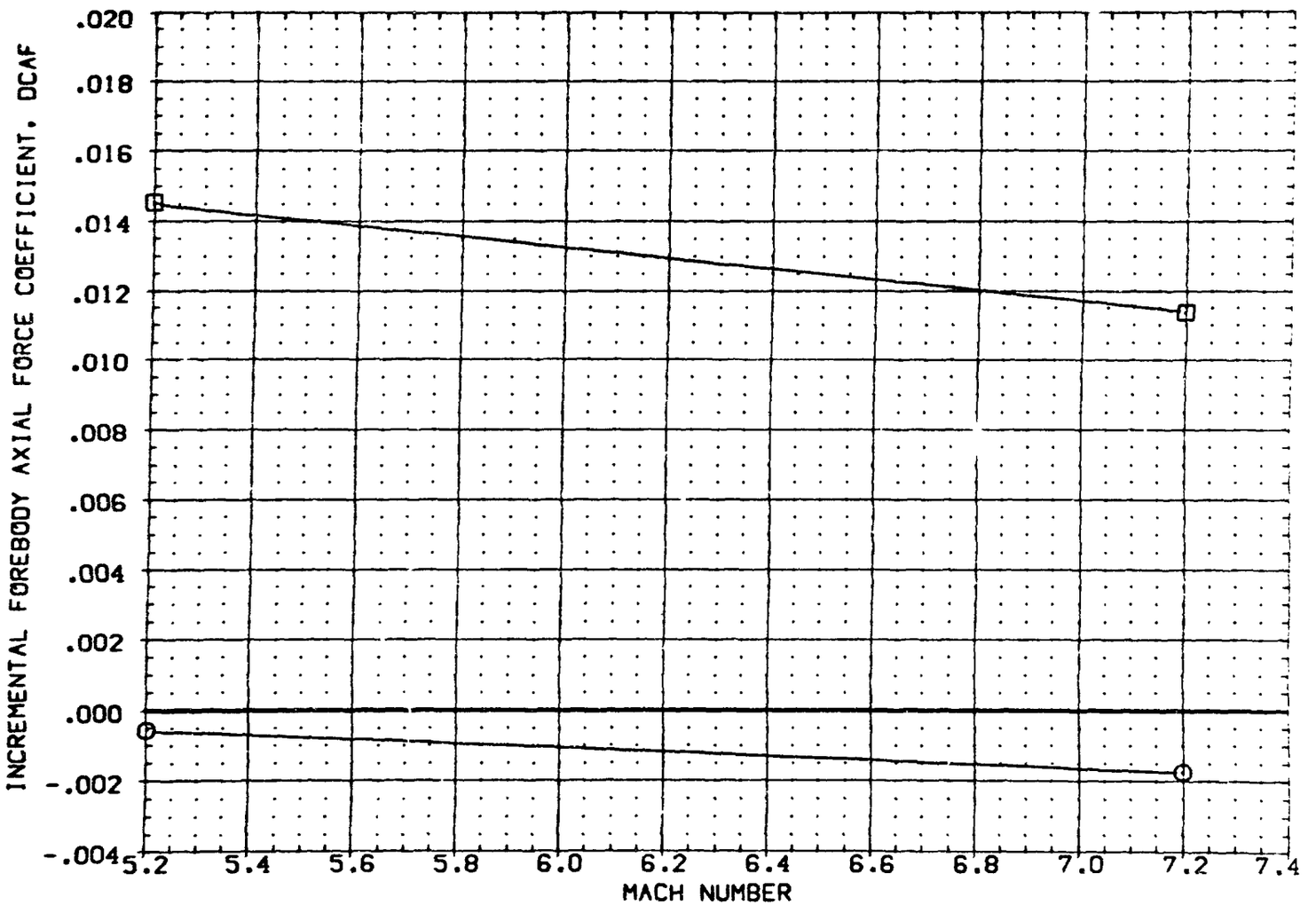


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(G)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

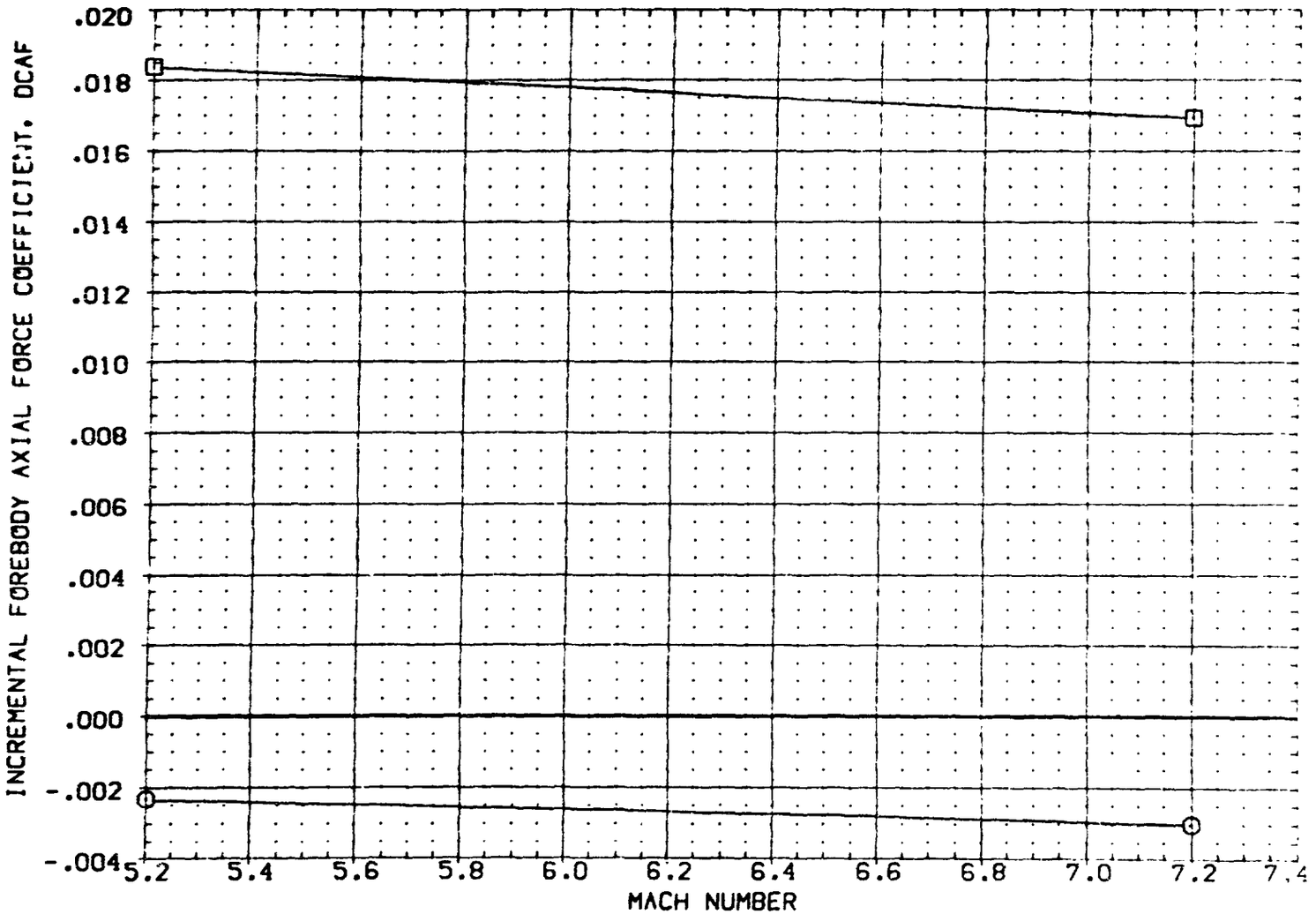


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

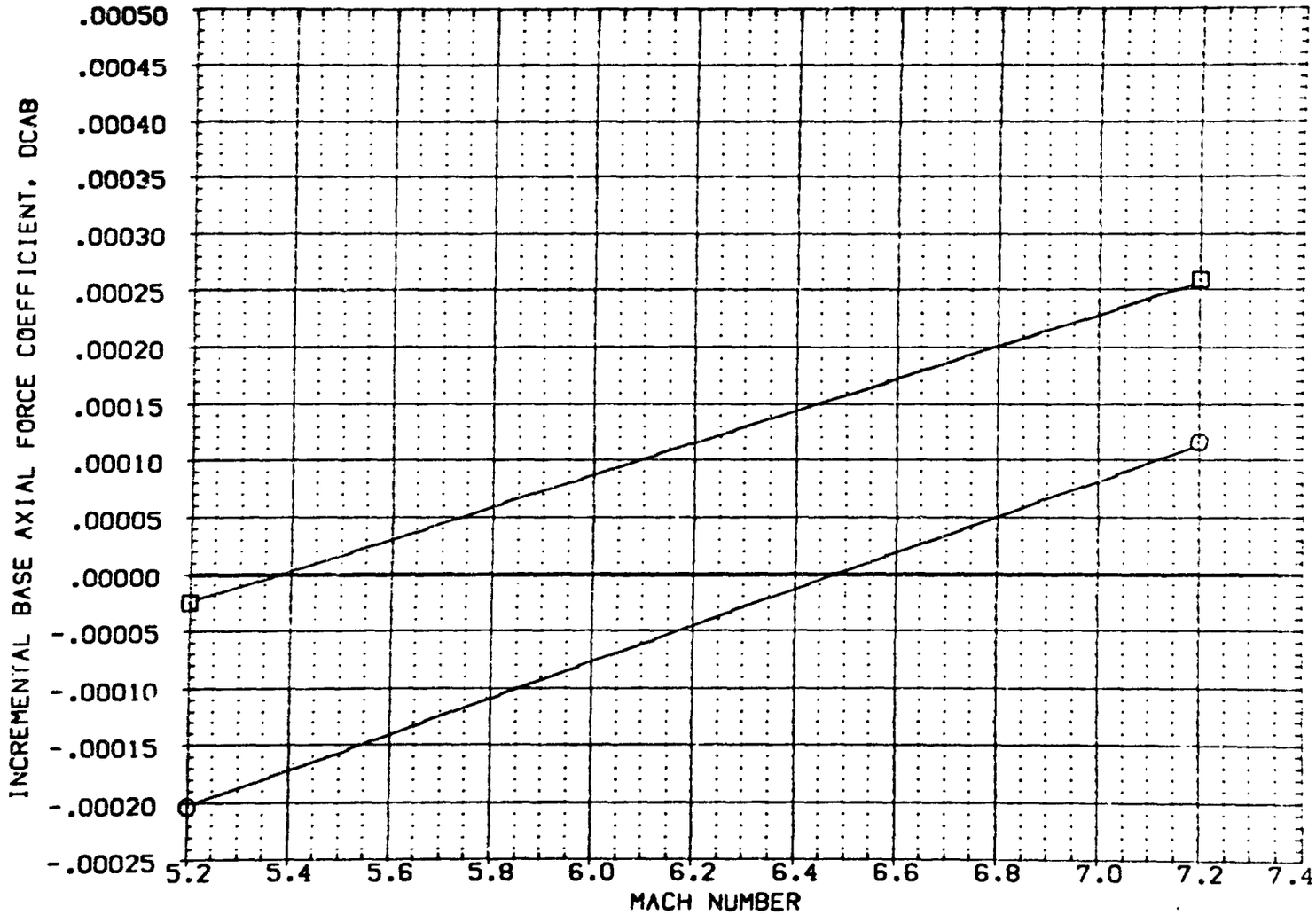


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

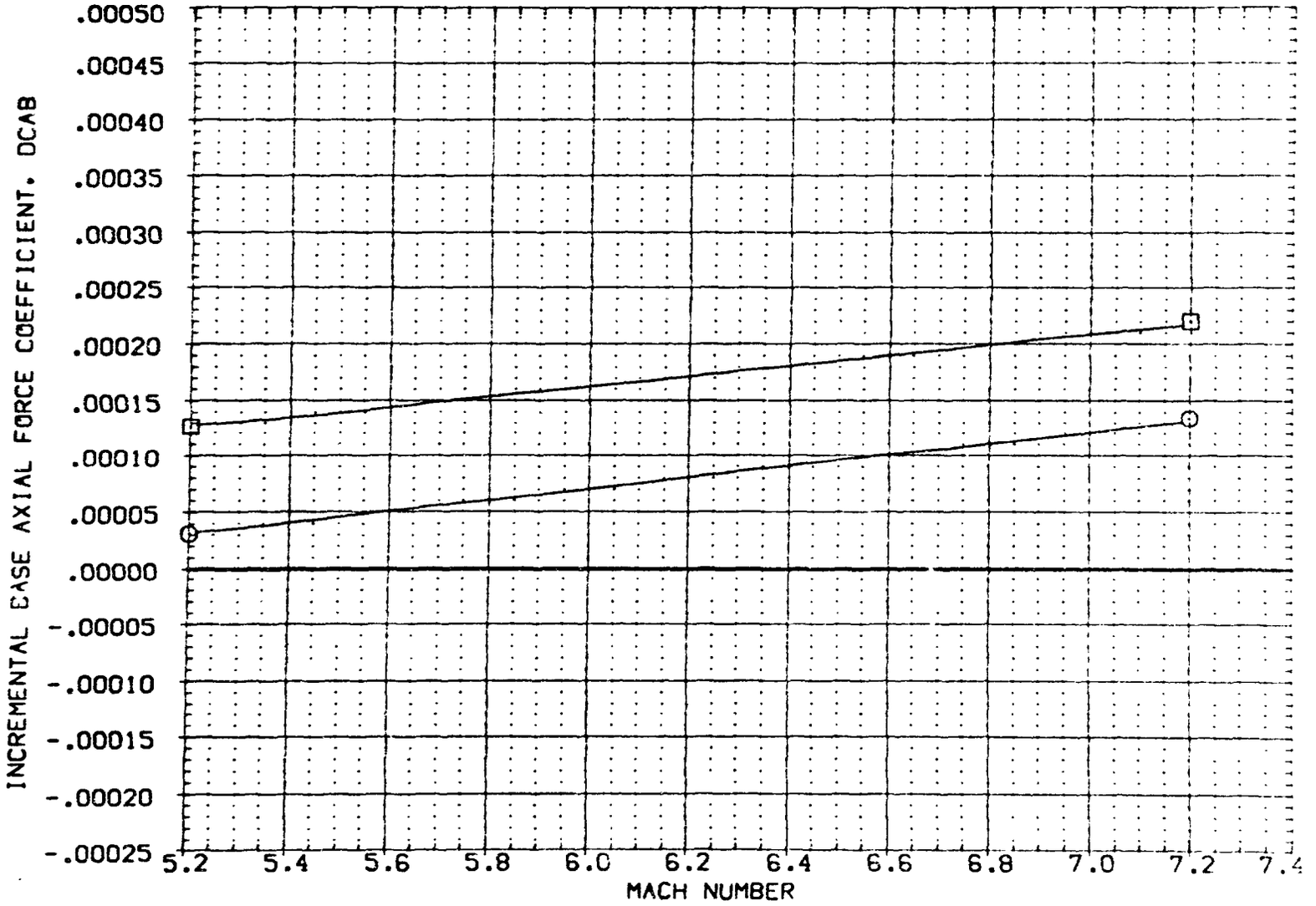


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

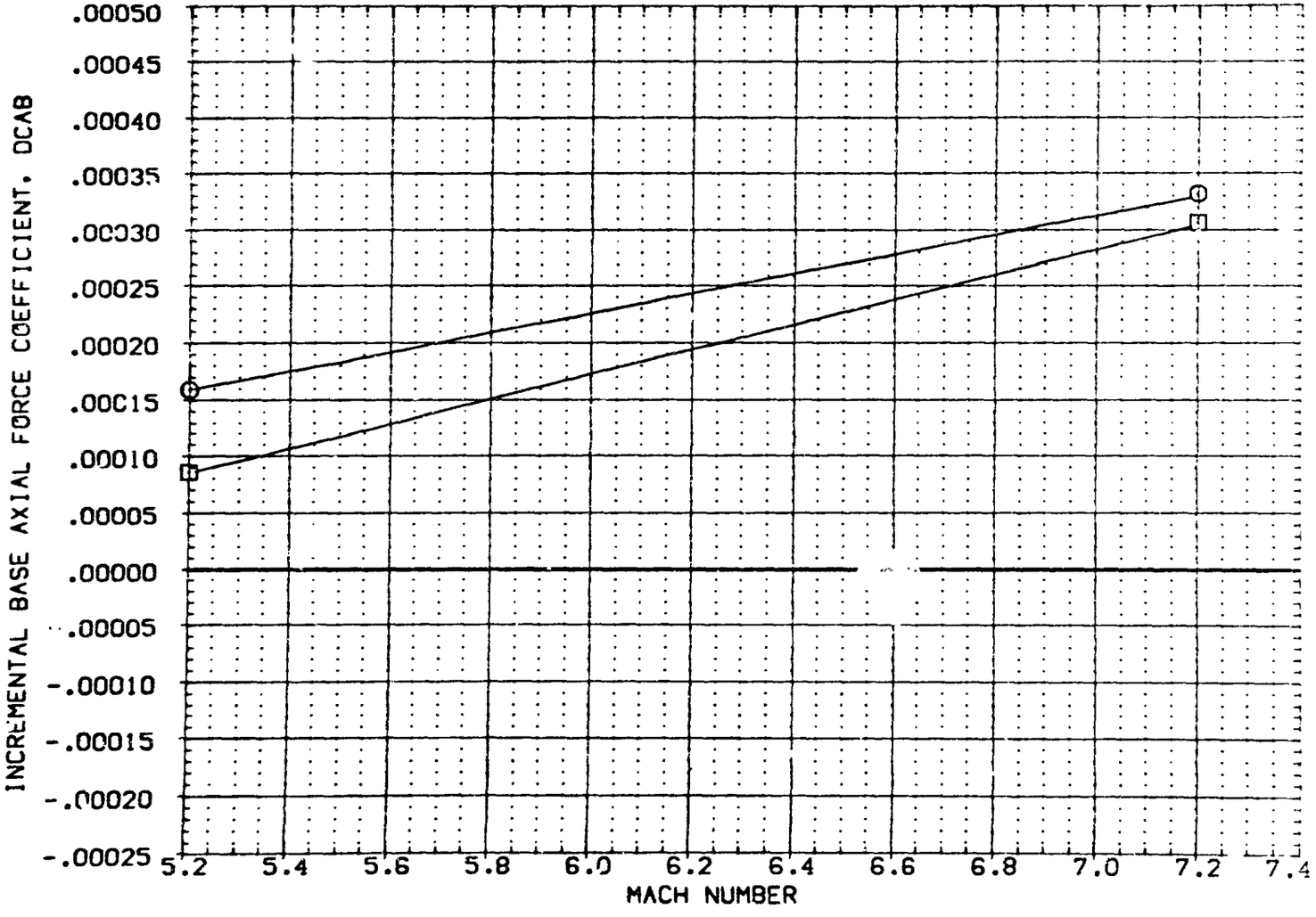


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N3 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

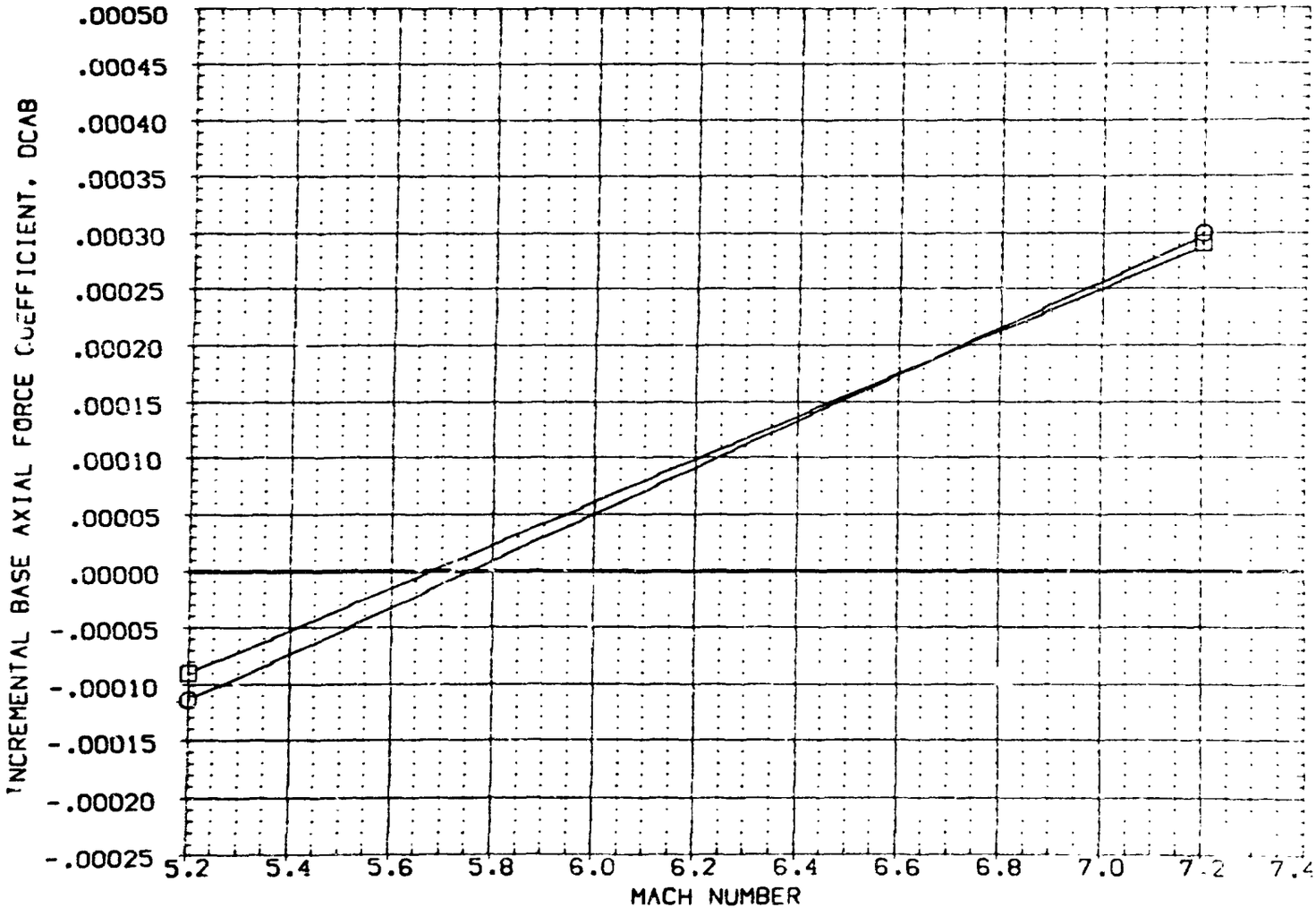


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	8	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

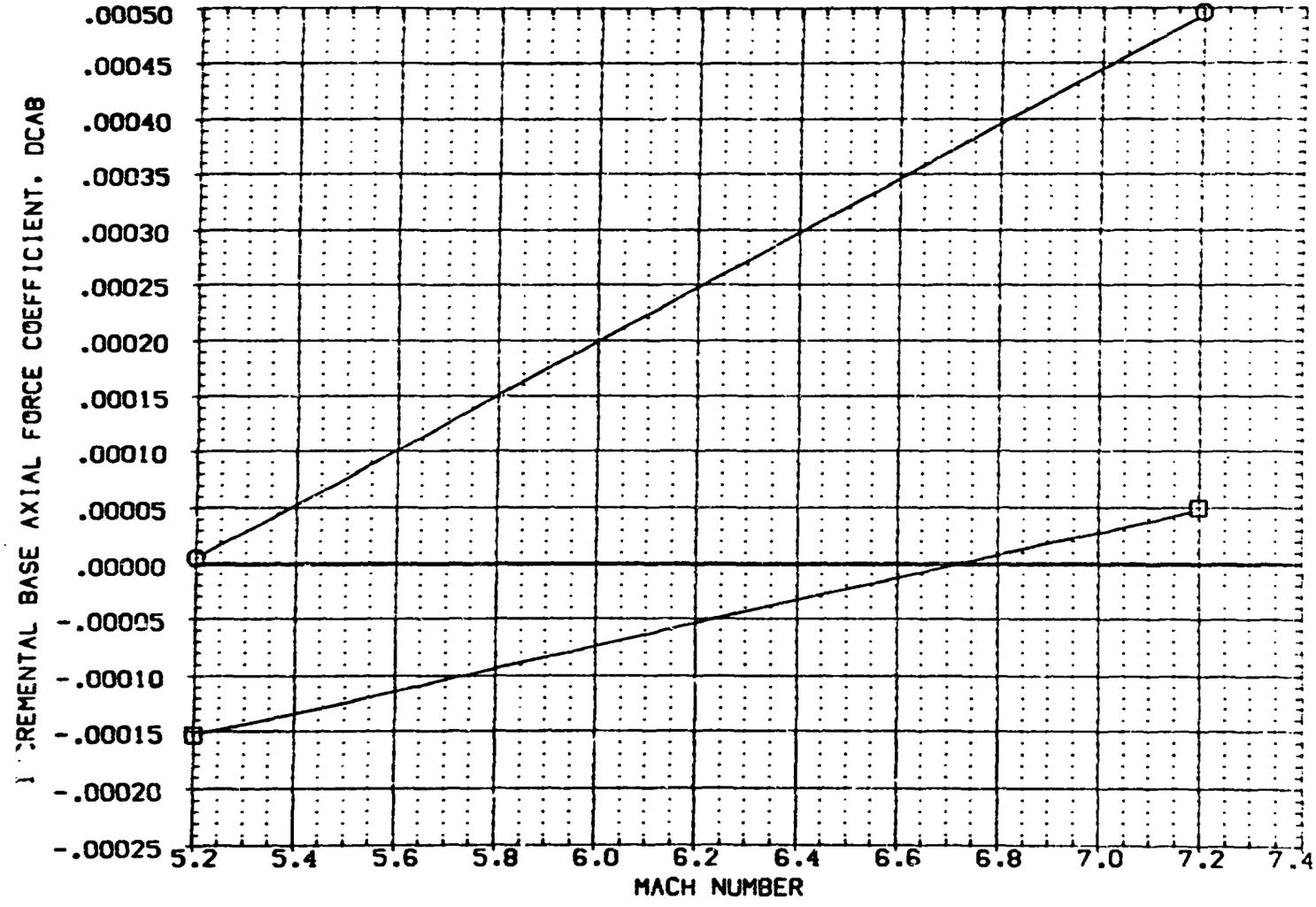


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

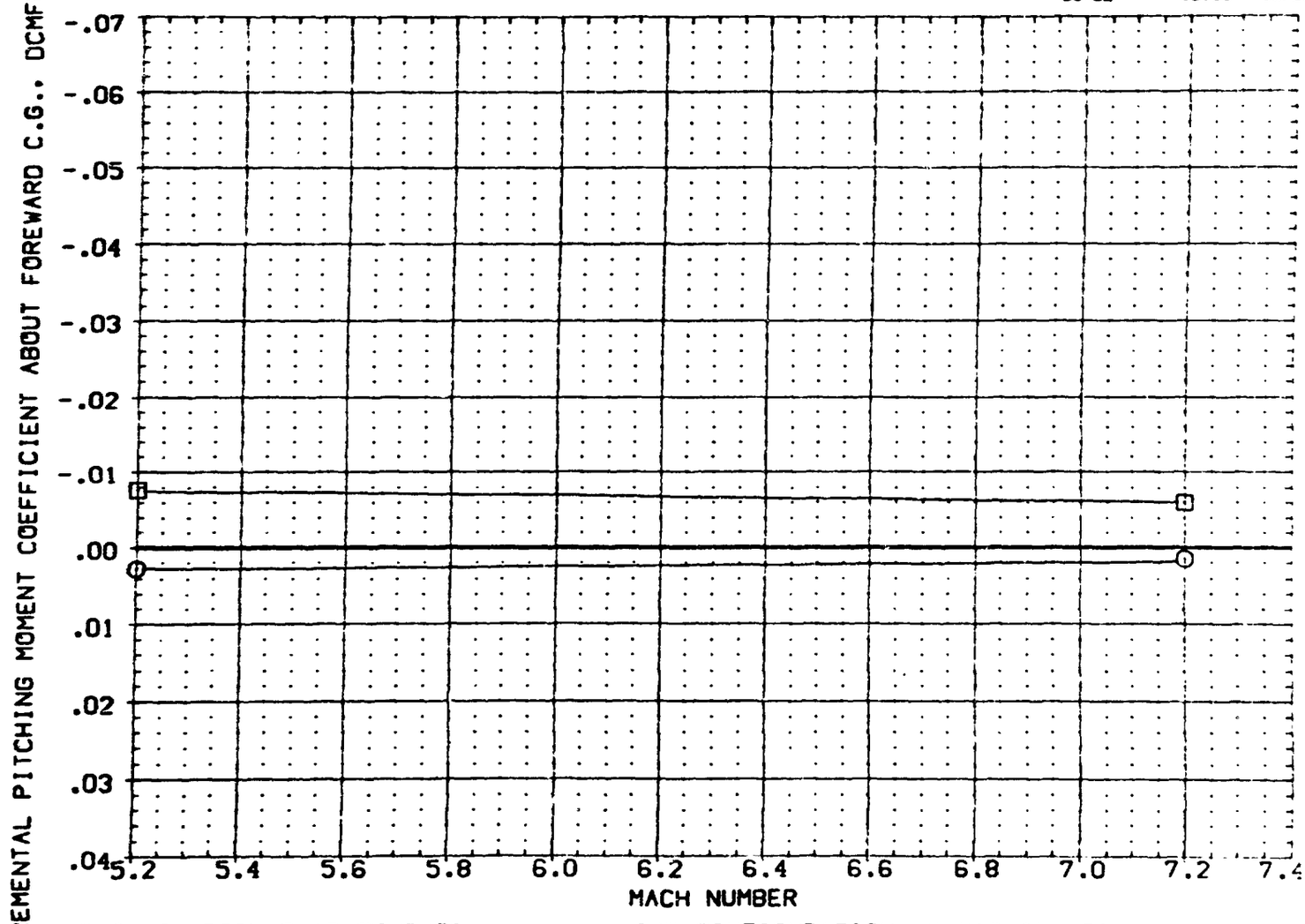


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	8	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

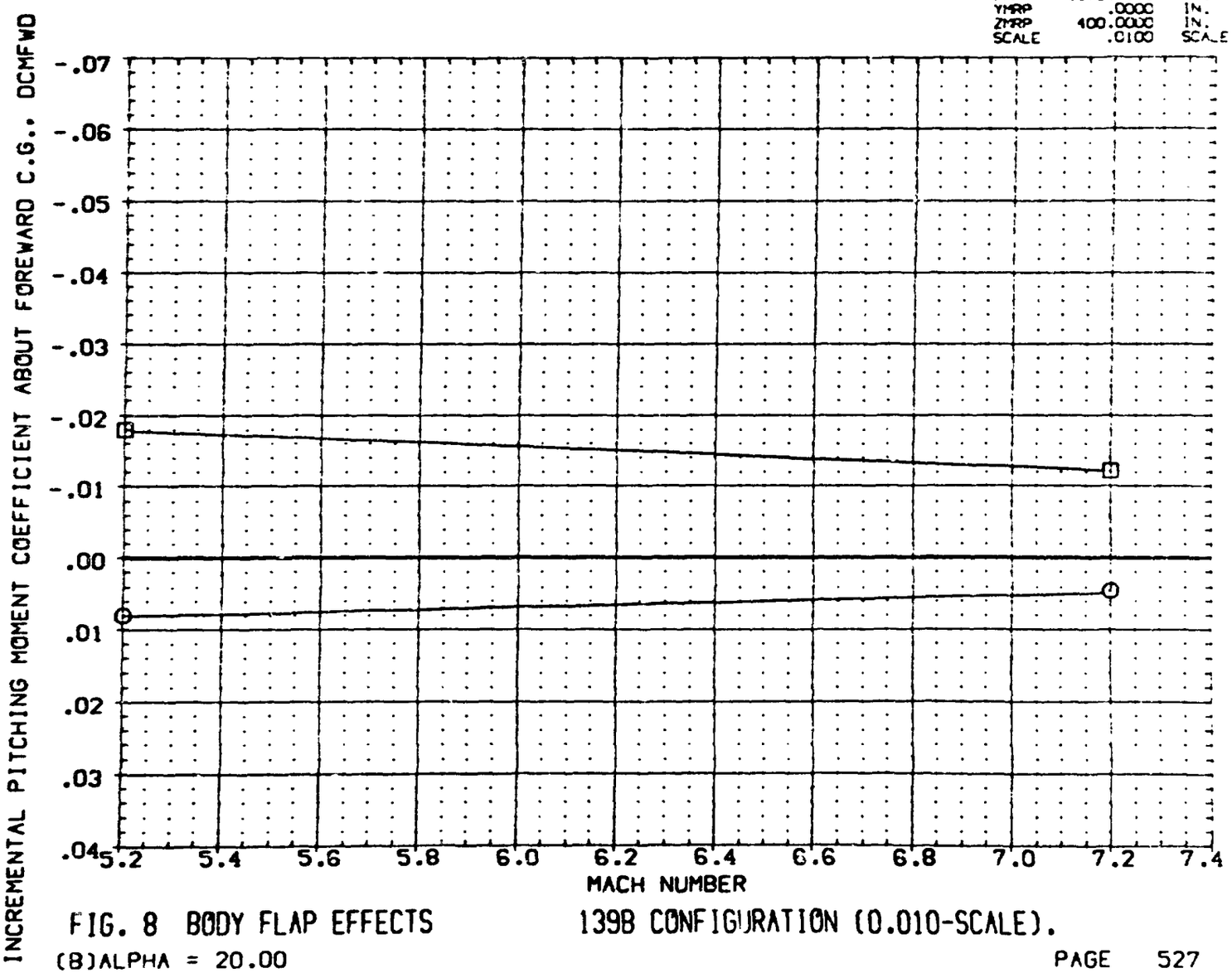


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(8)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	930.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

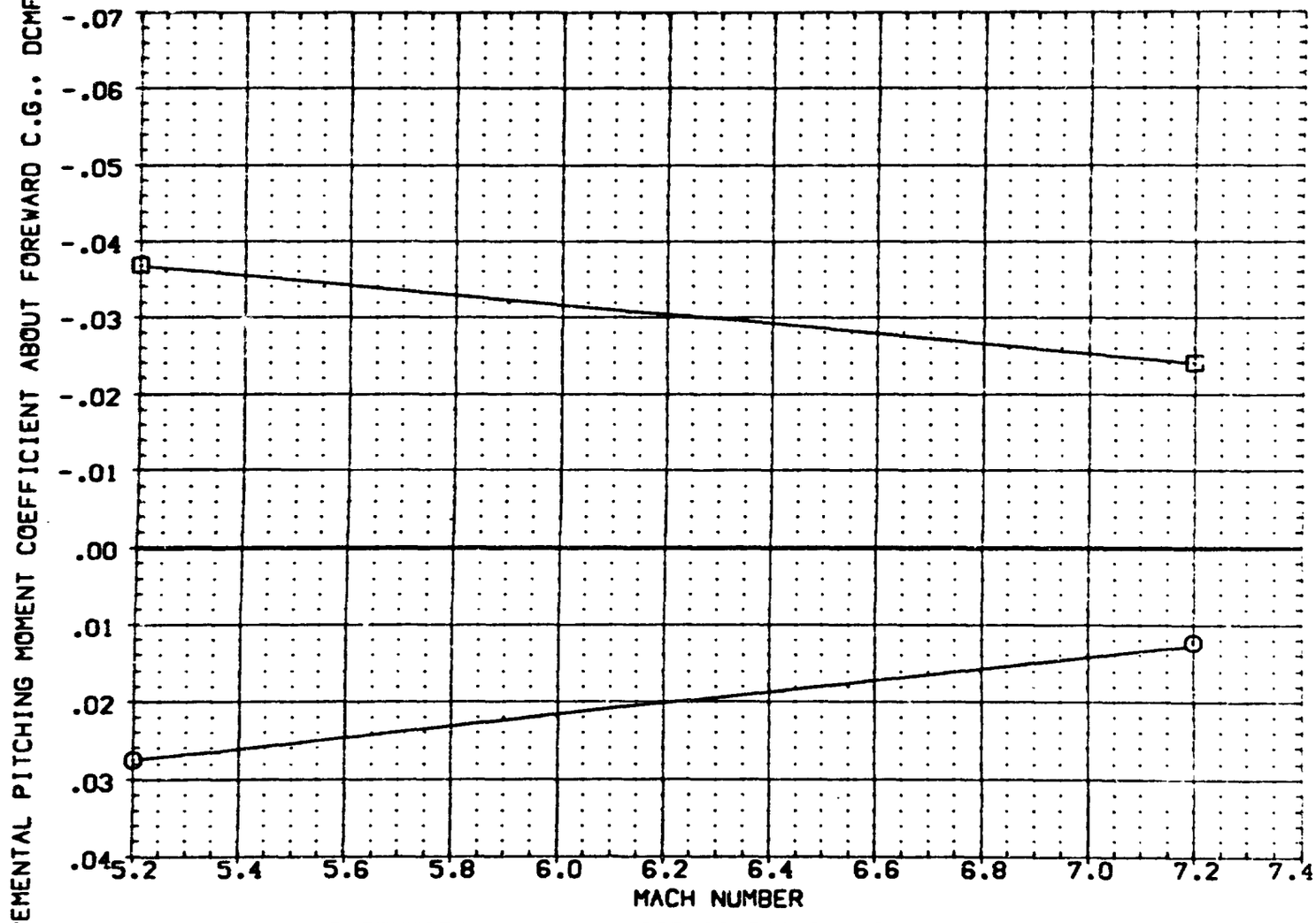


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

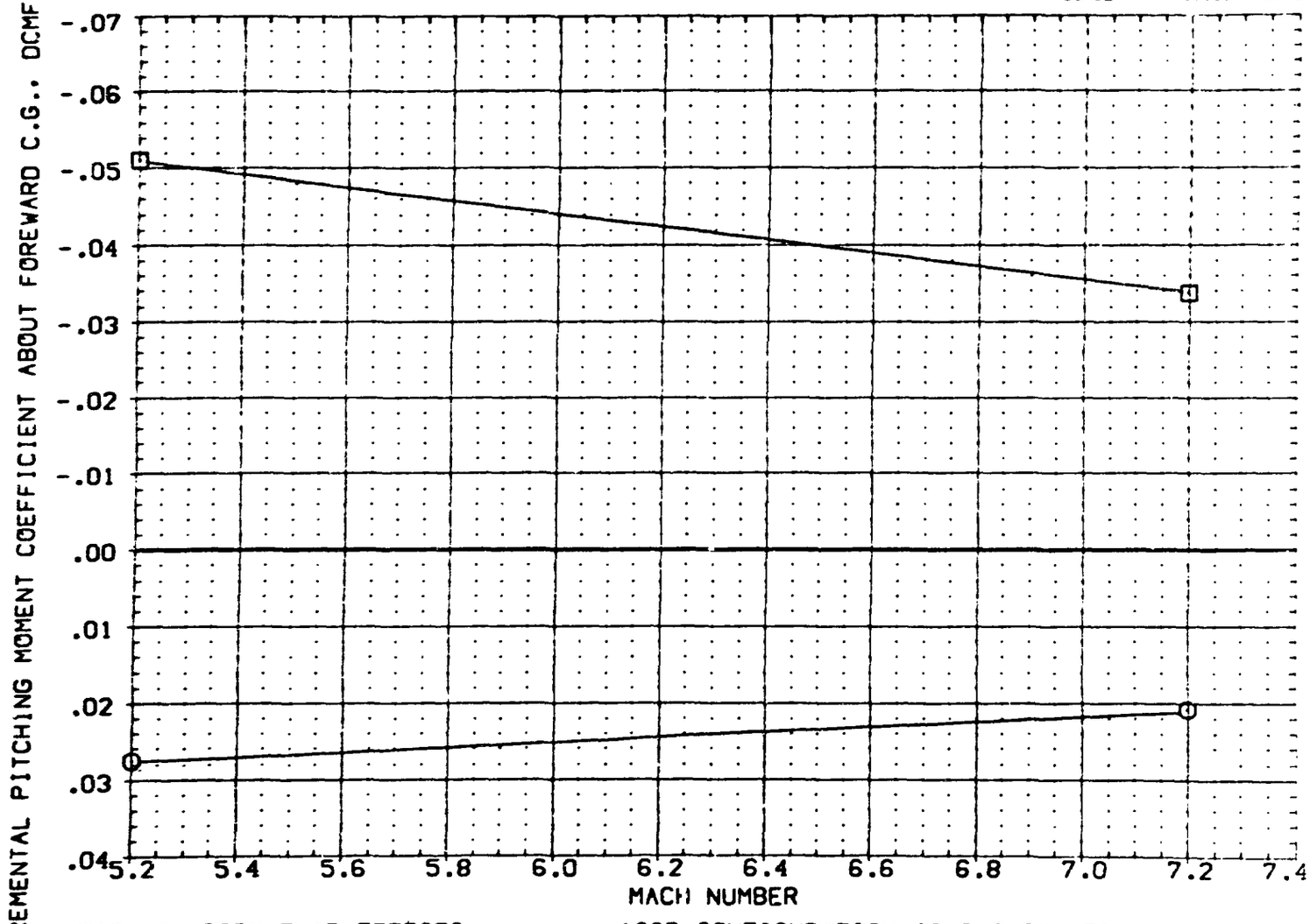


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

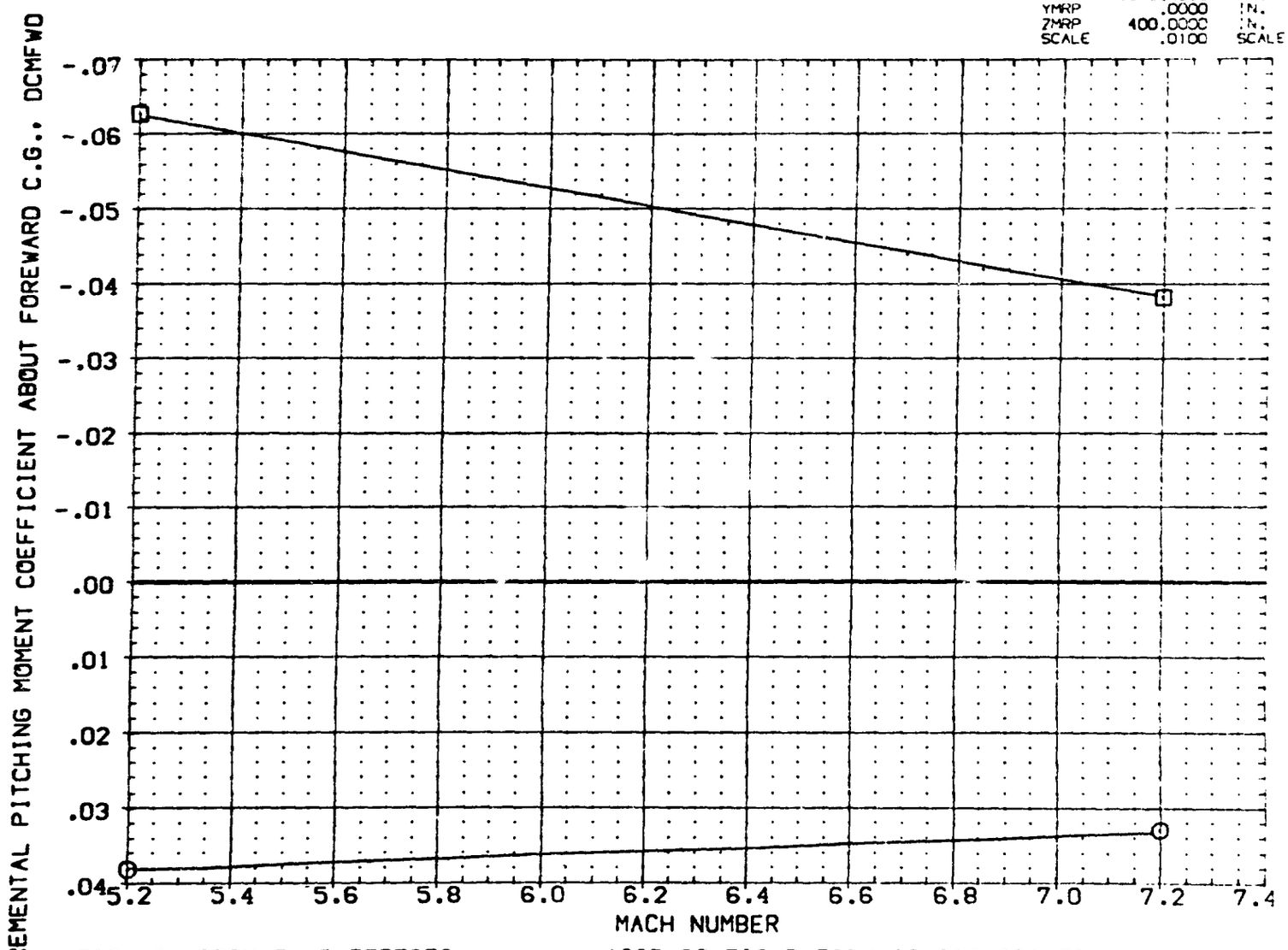


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

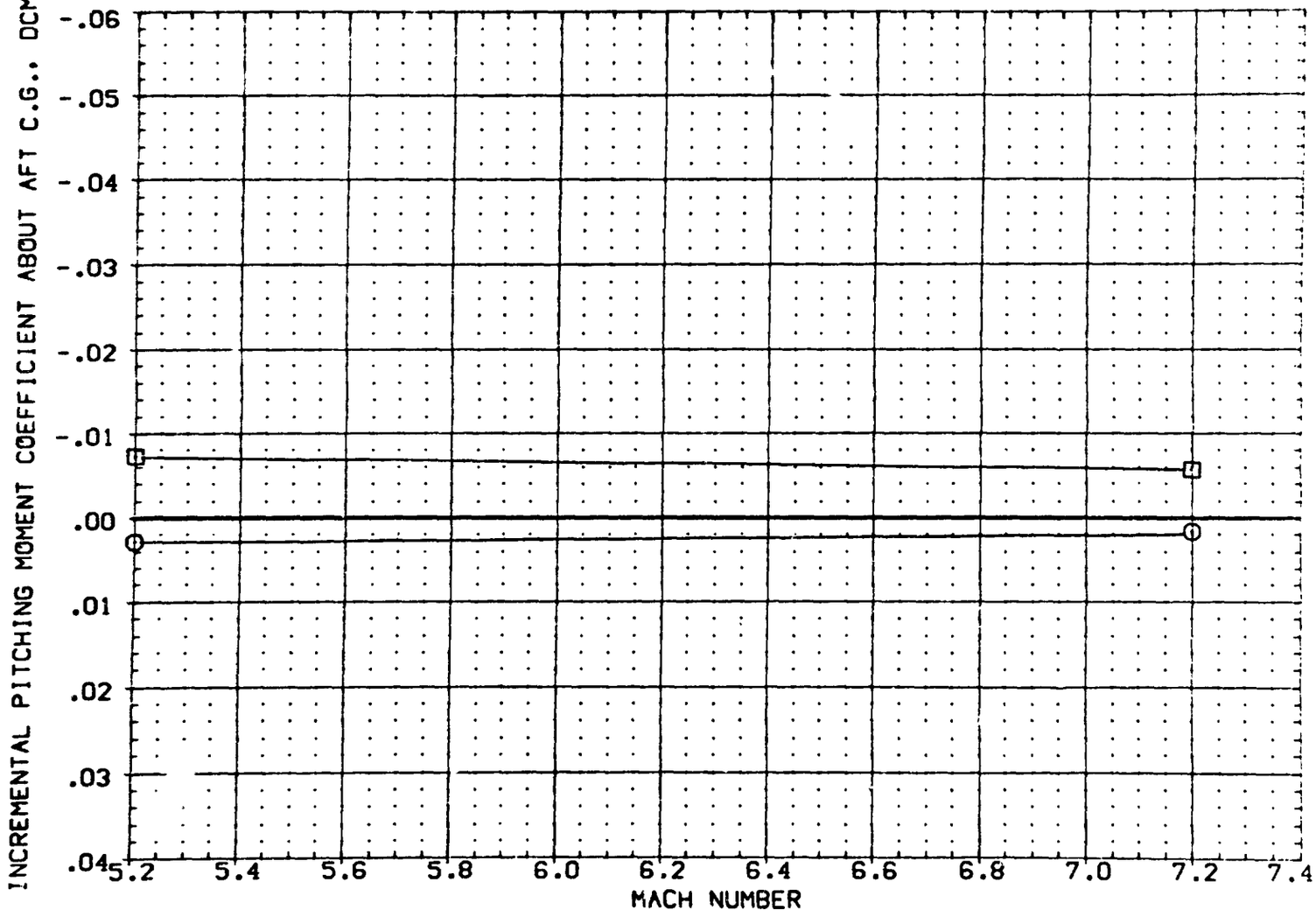


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)ALPHA = 12.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

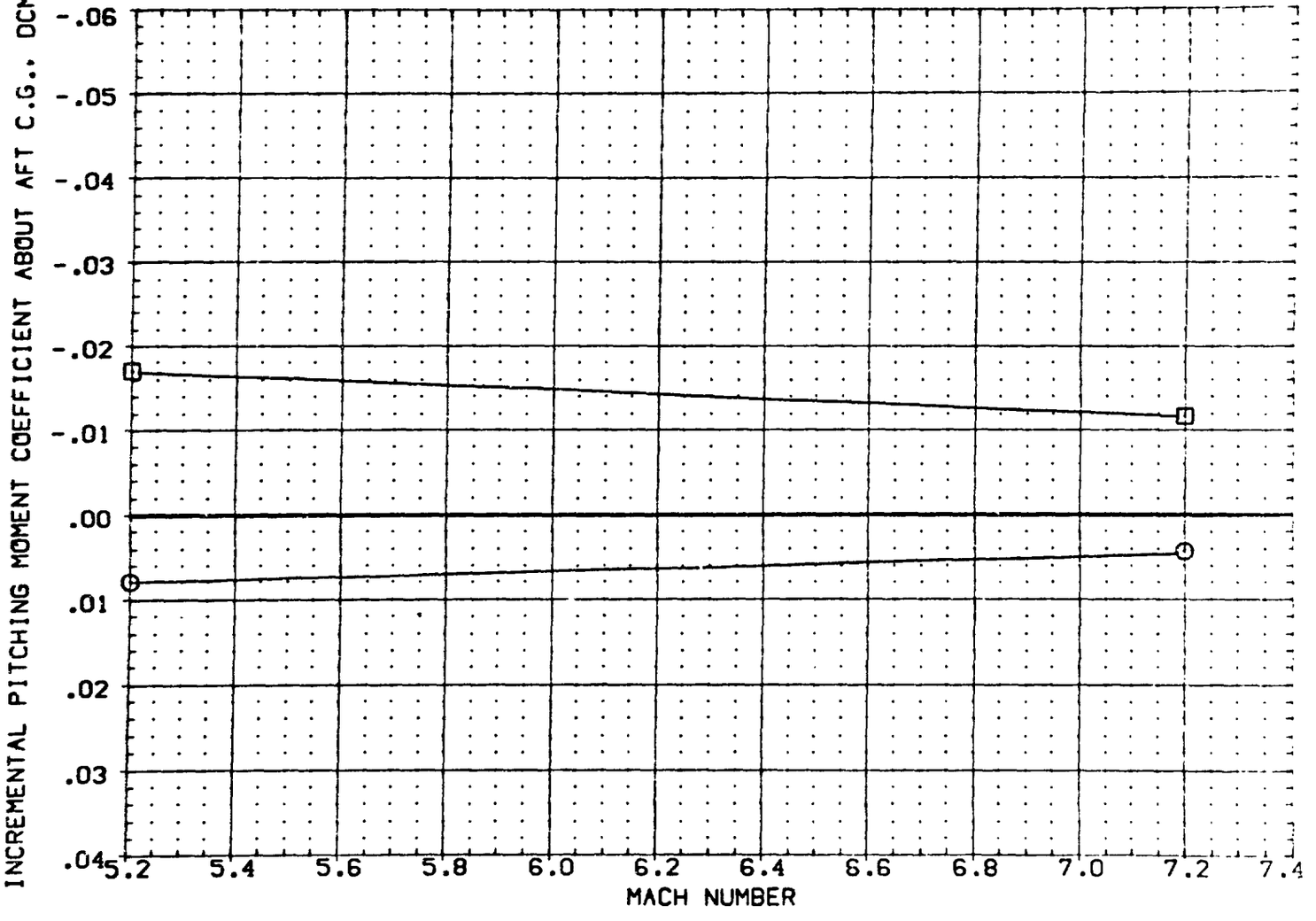


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)ALPHA = 20.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

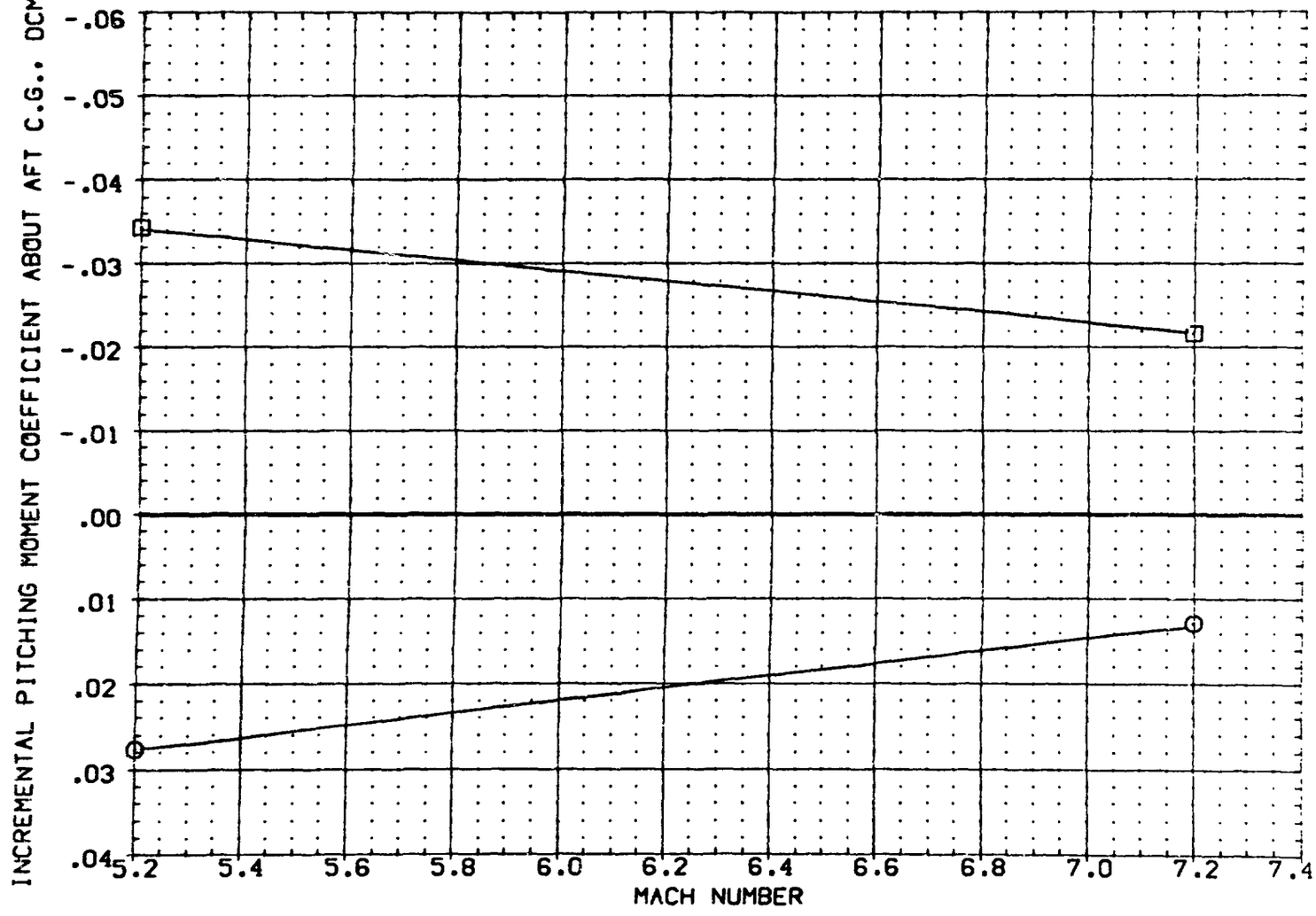


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

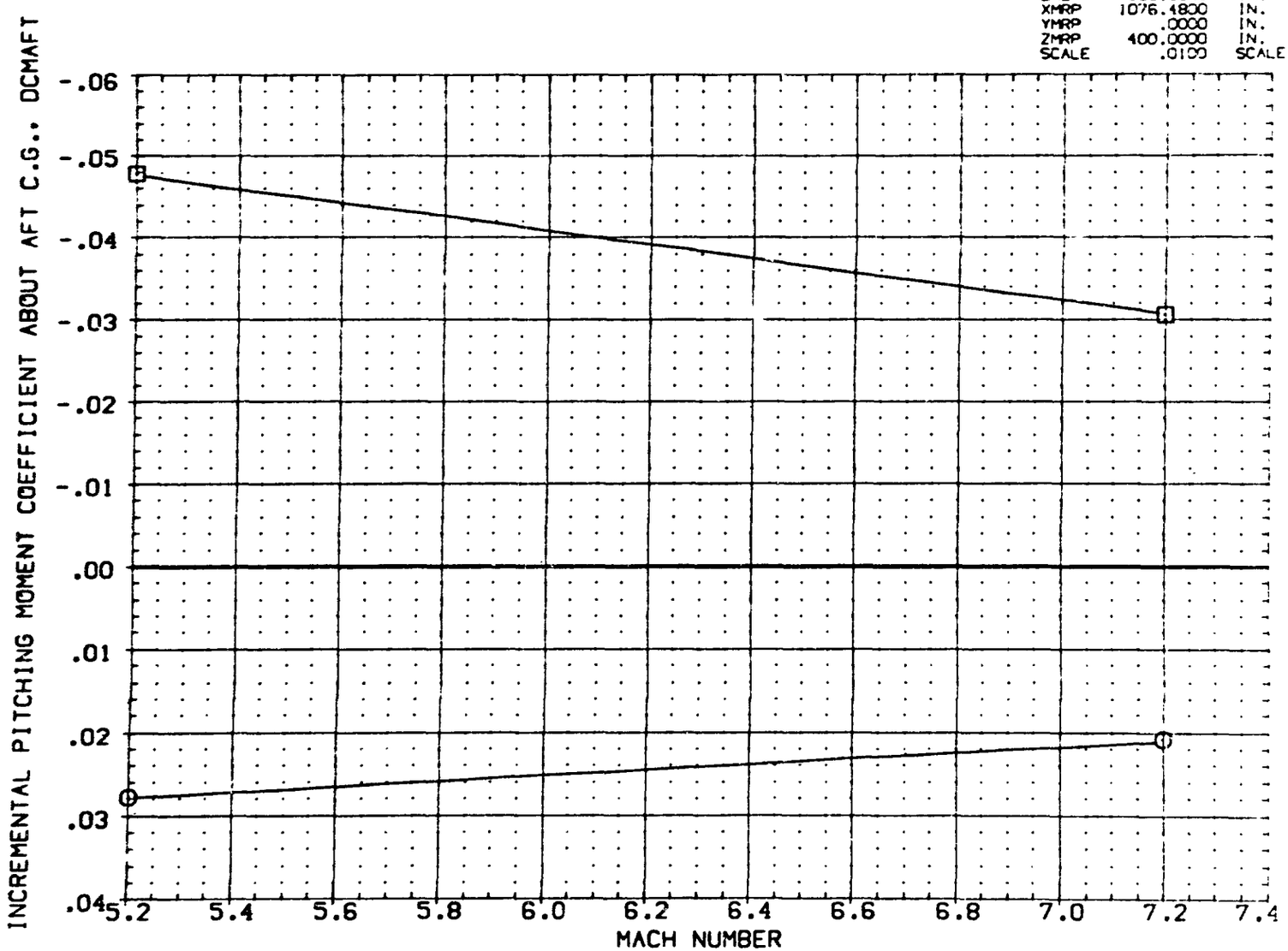


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER
(U86012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(U86011)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

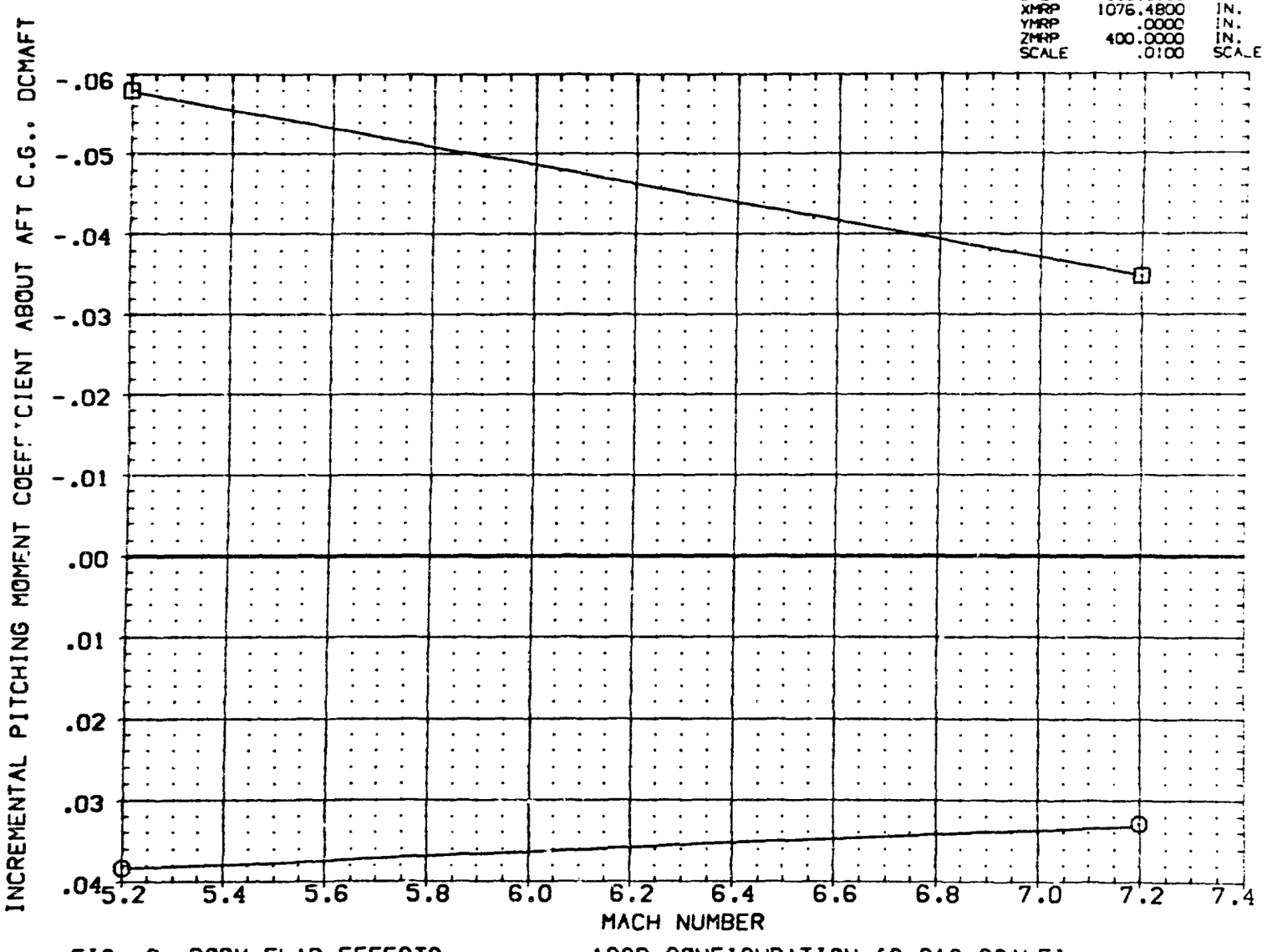


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(E)ALPHA = 50.00

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	12.000	MACH	5.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6012	-14.250	0B6010	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6011	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▷	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

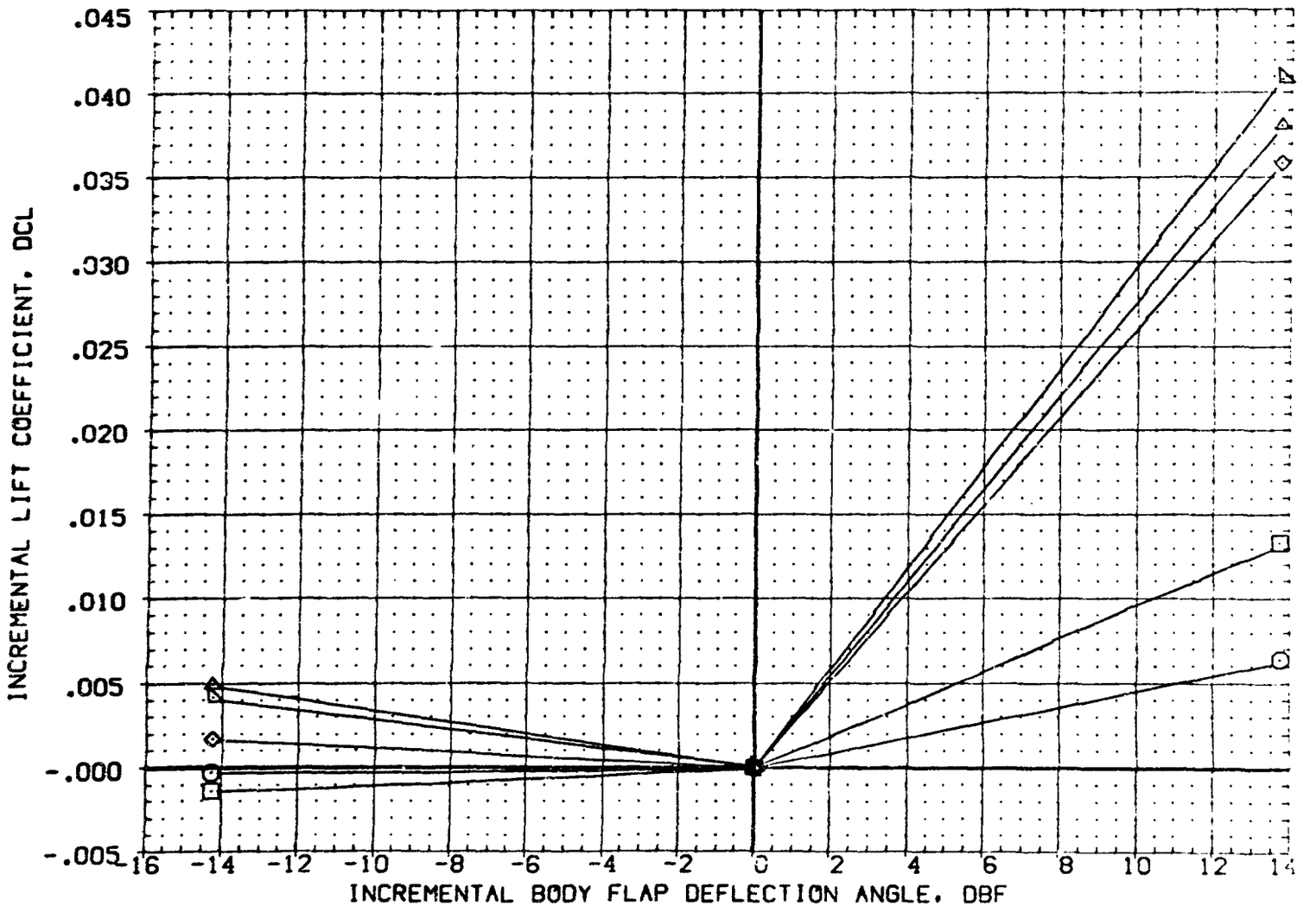


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	12.000	MACH	7.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6012	-14.250	QB6010	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6011	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
◺	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

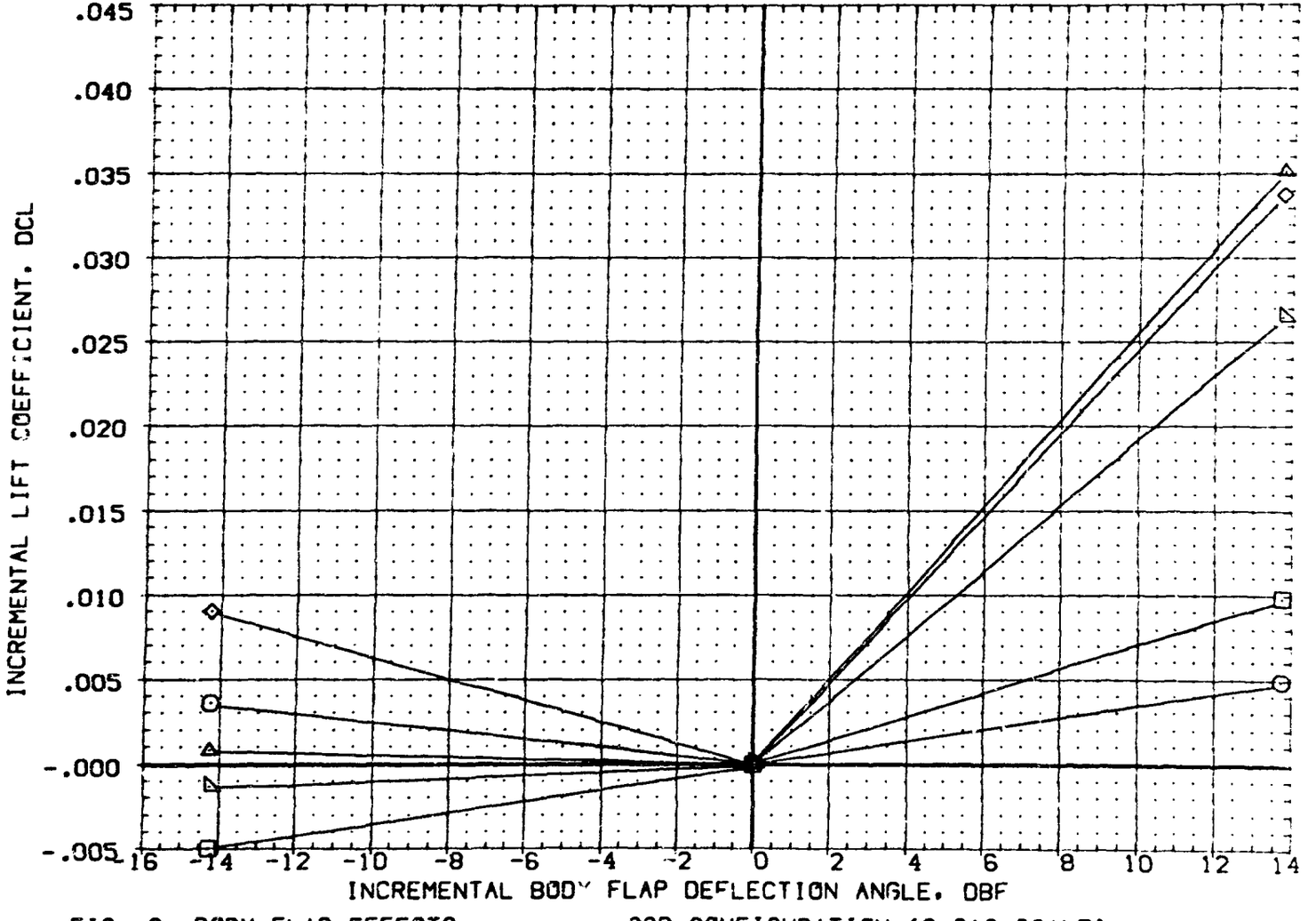


FIG. 8 BODY FLAP EFFECTS .39B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	12.000	MACH	5.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6012	-14.250	QB6010	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6011	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▷	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

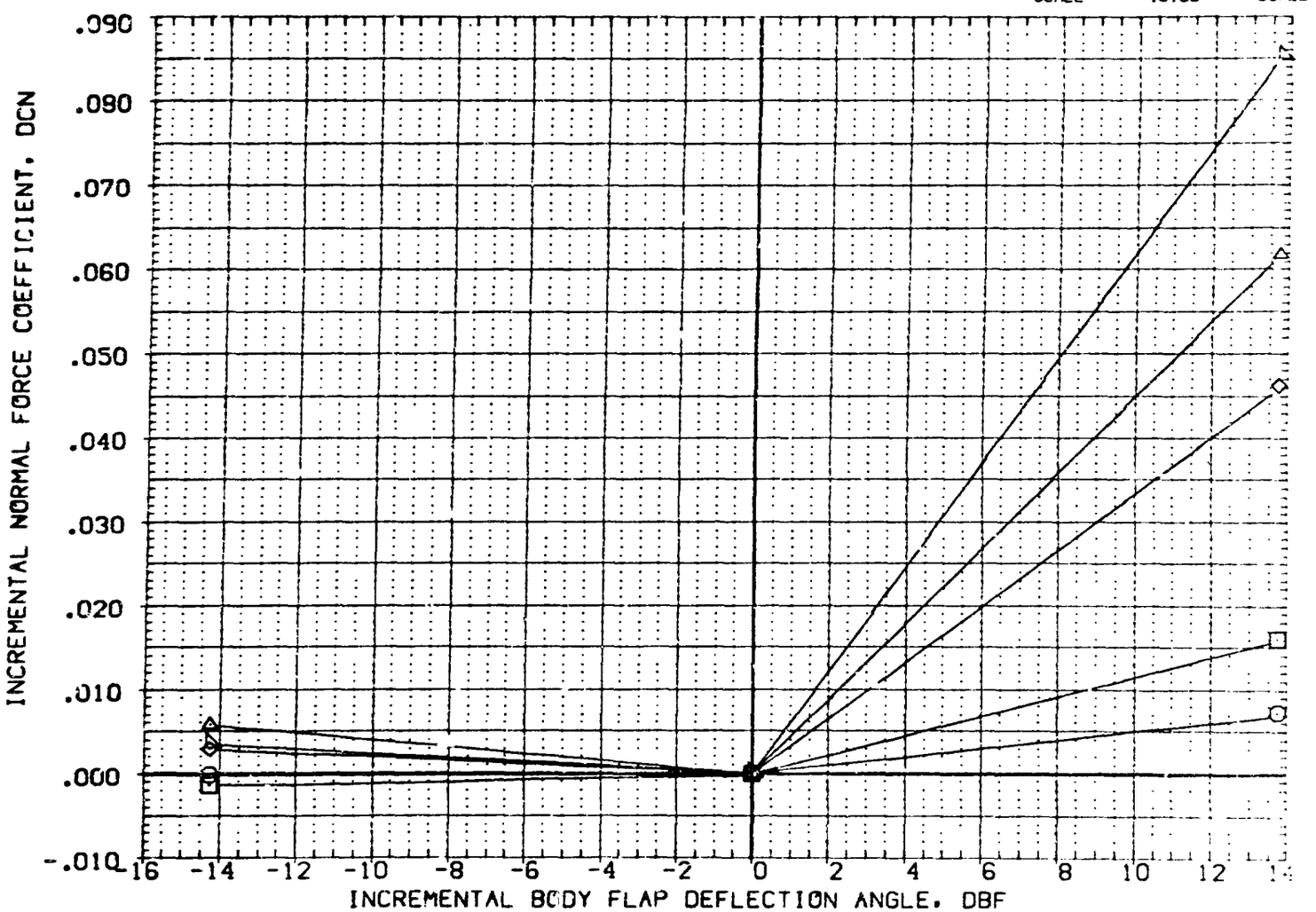


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

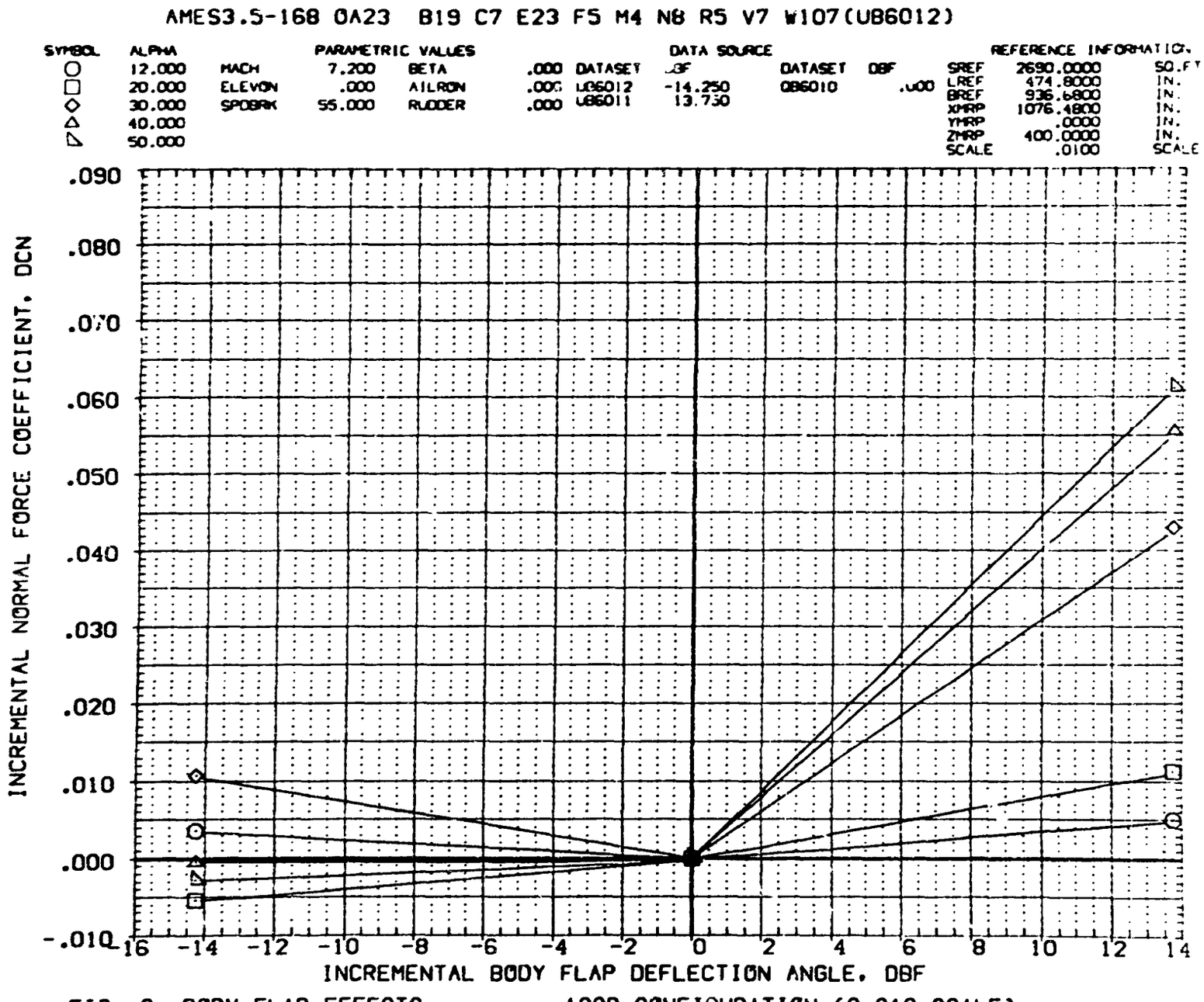


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 319 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	12.000	MACH	5.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6012	-14.250	UB6010	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6011	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▷	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

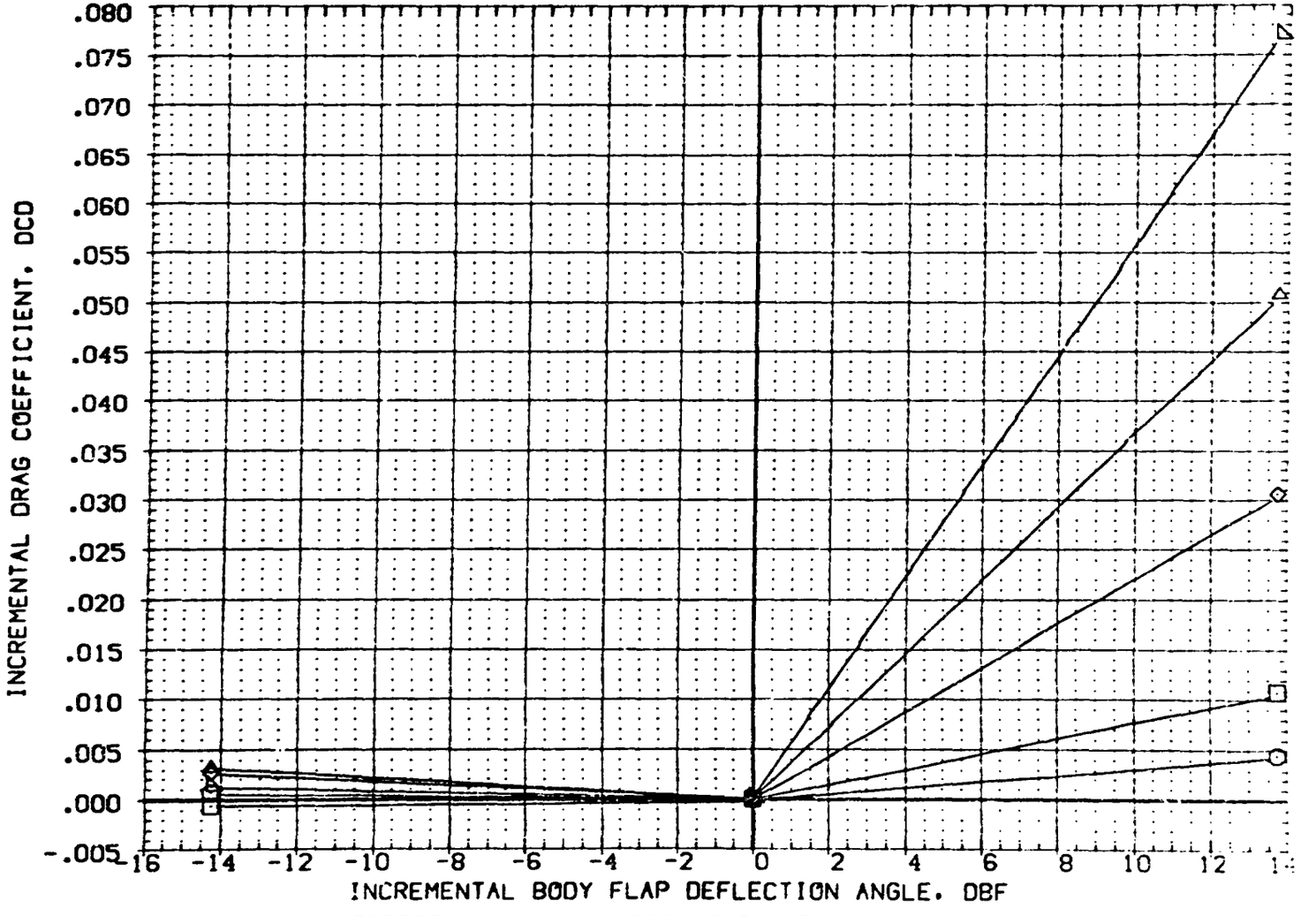


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	12.000	MACH	7.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6012	-14.250	QB6010	.000	LREF	474.8000	IN.
◇	30.000	SPOIRK	55.000	RUDDER	.000	UB6011	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▷	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

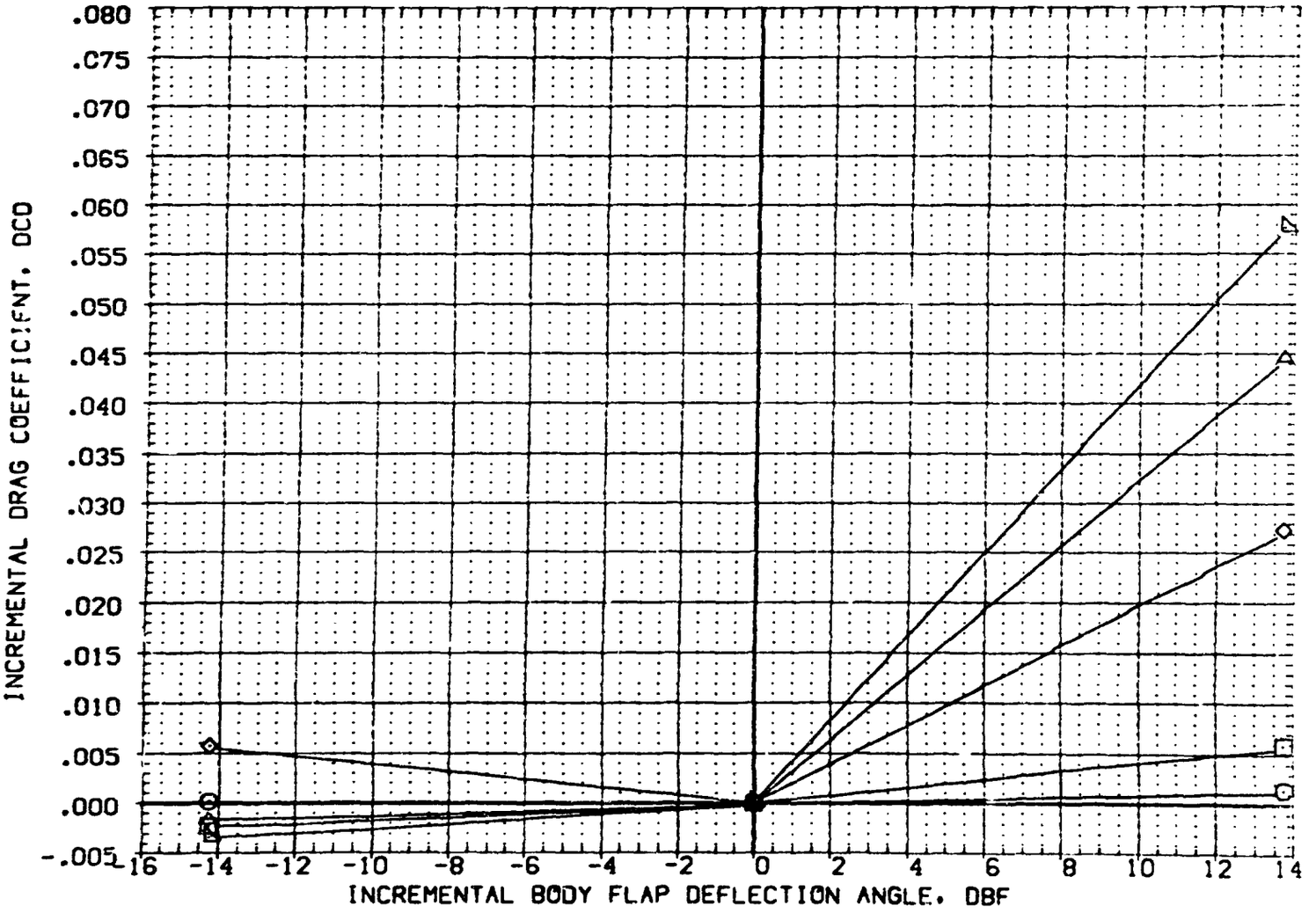


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

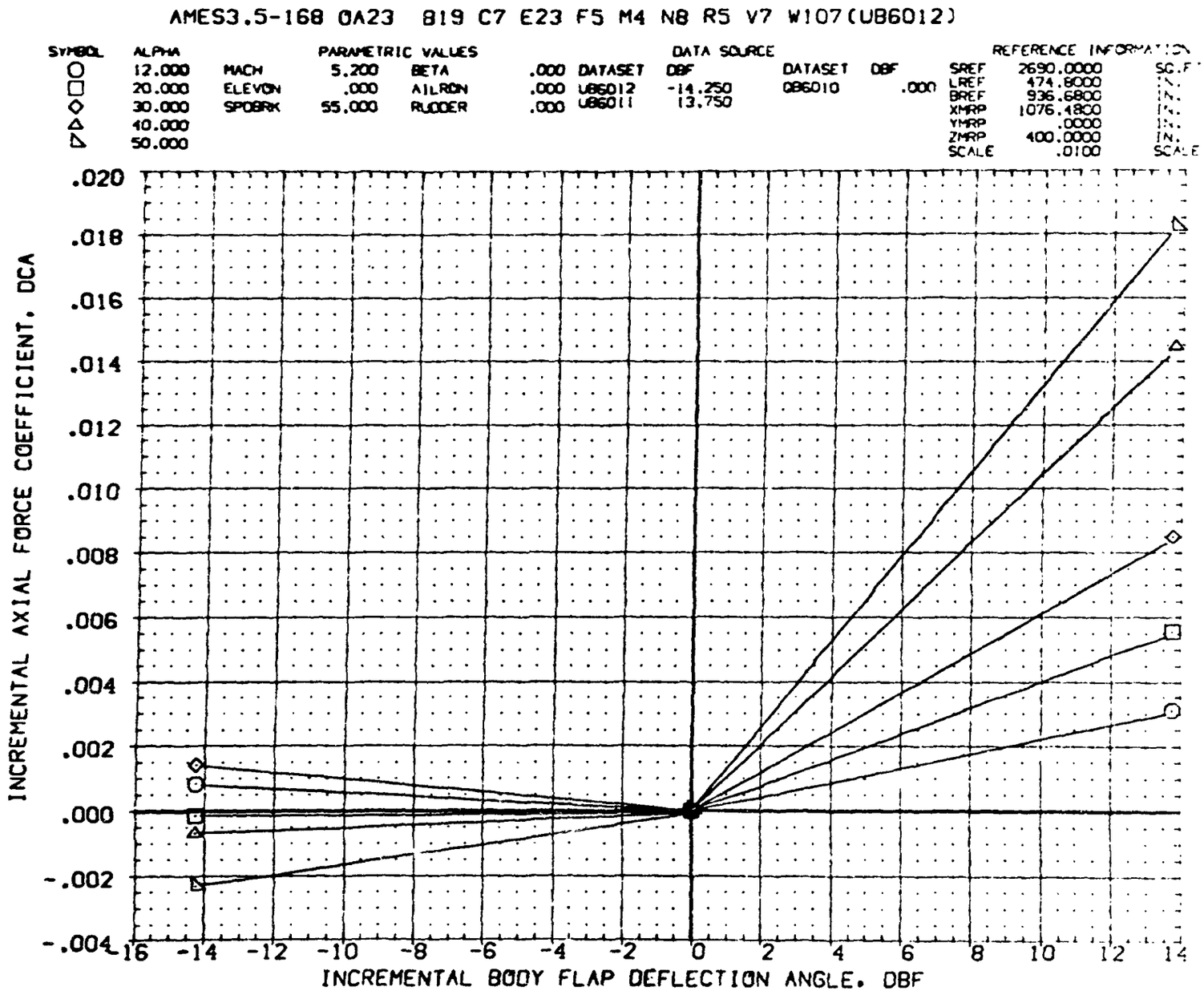


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	12.000	MACH	7.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6012	-14.250	UB6010	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6011	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

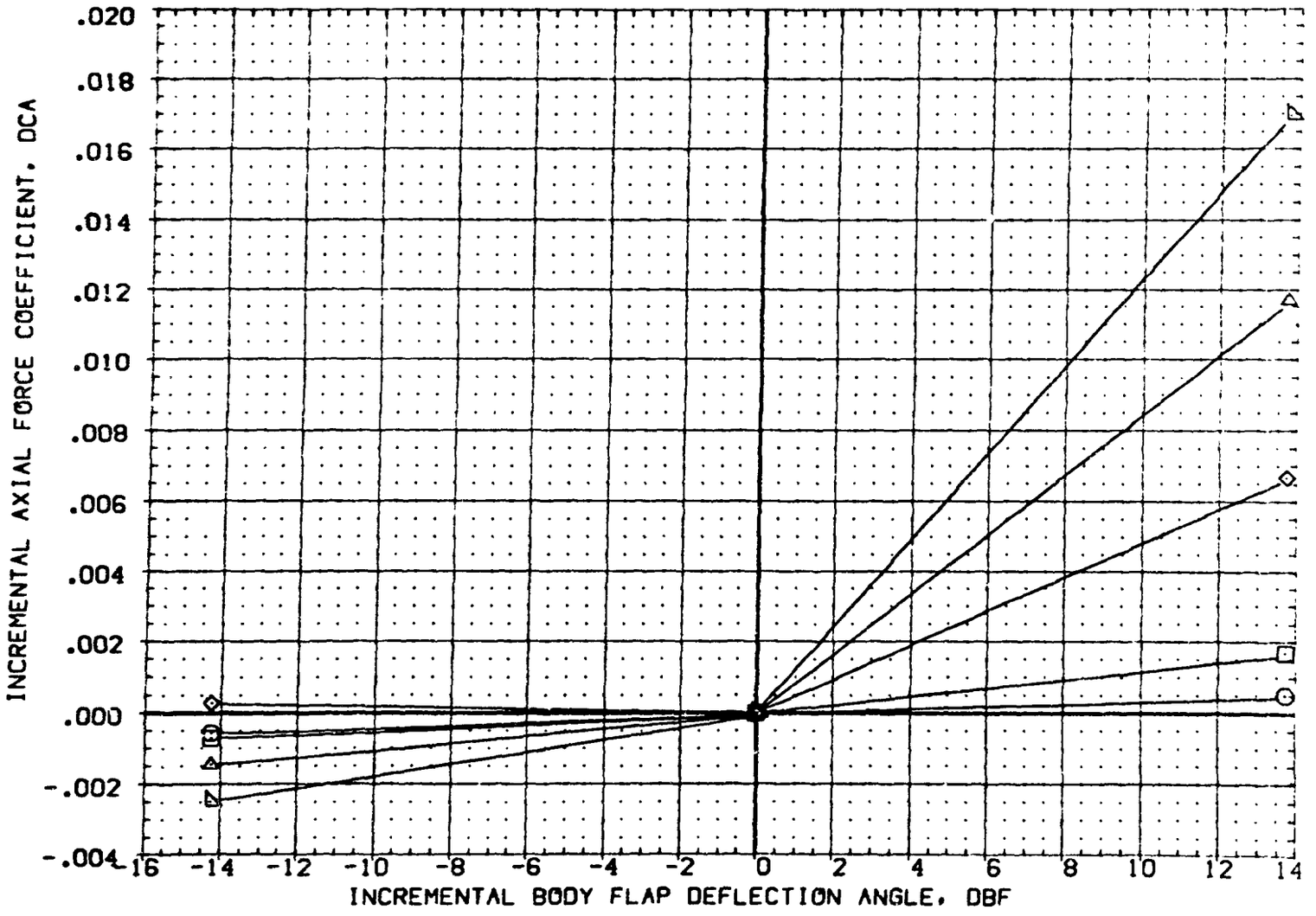


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (C.01C-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

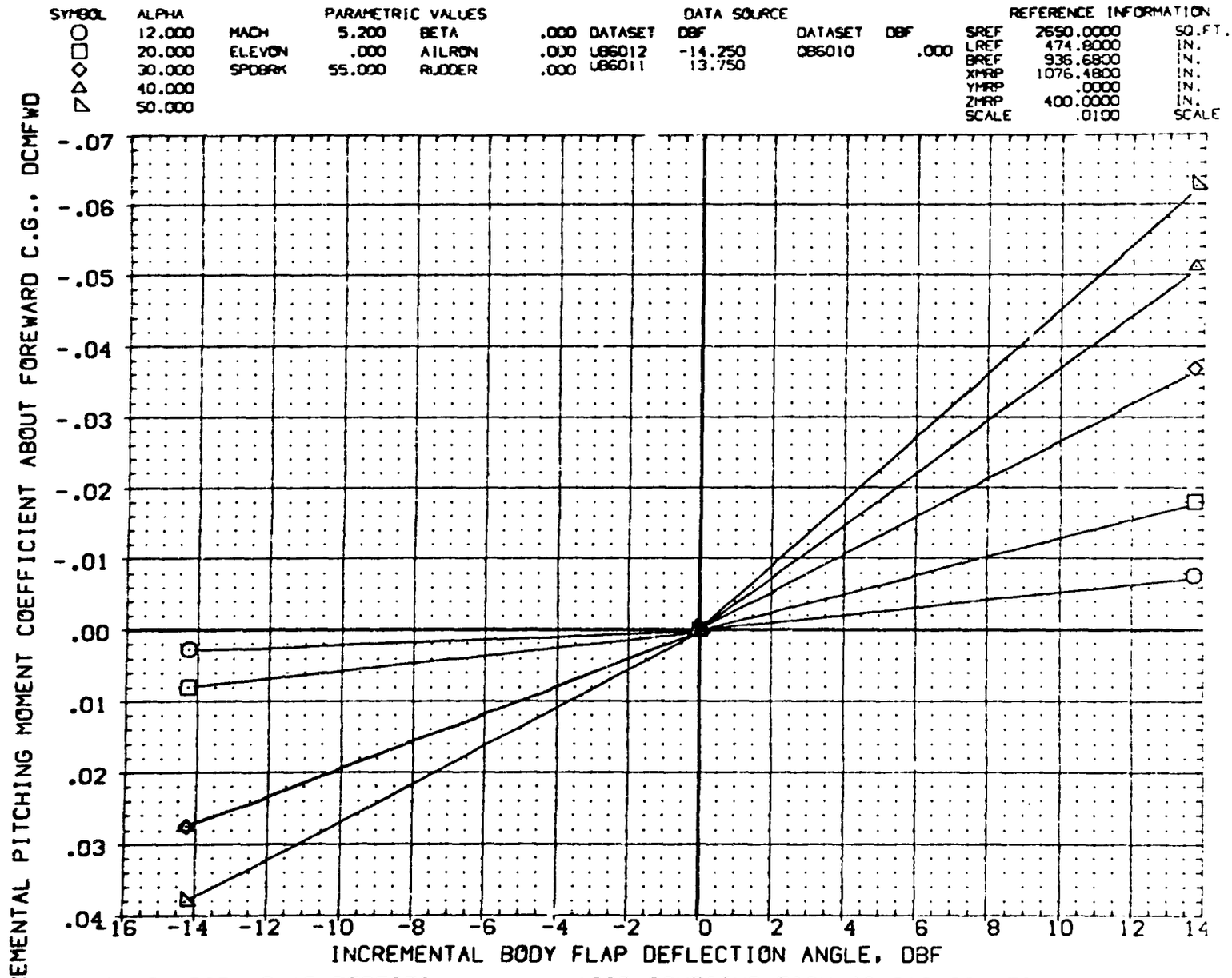


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

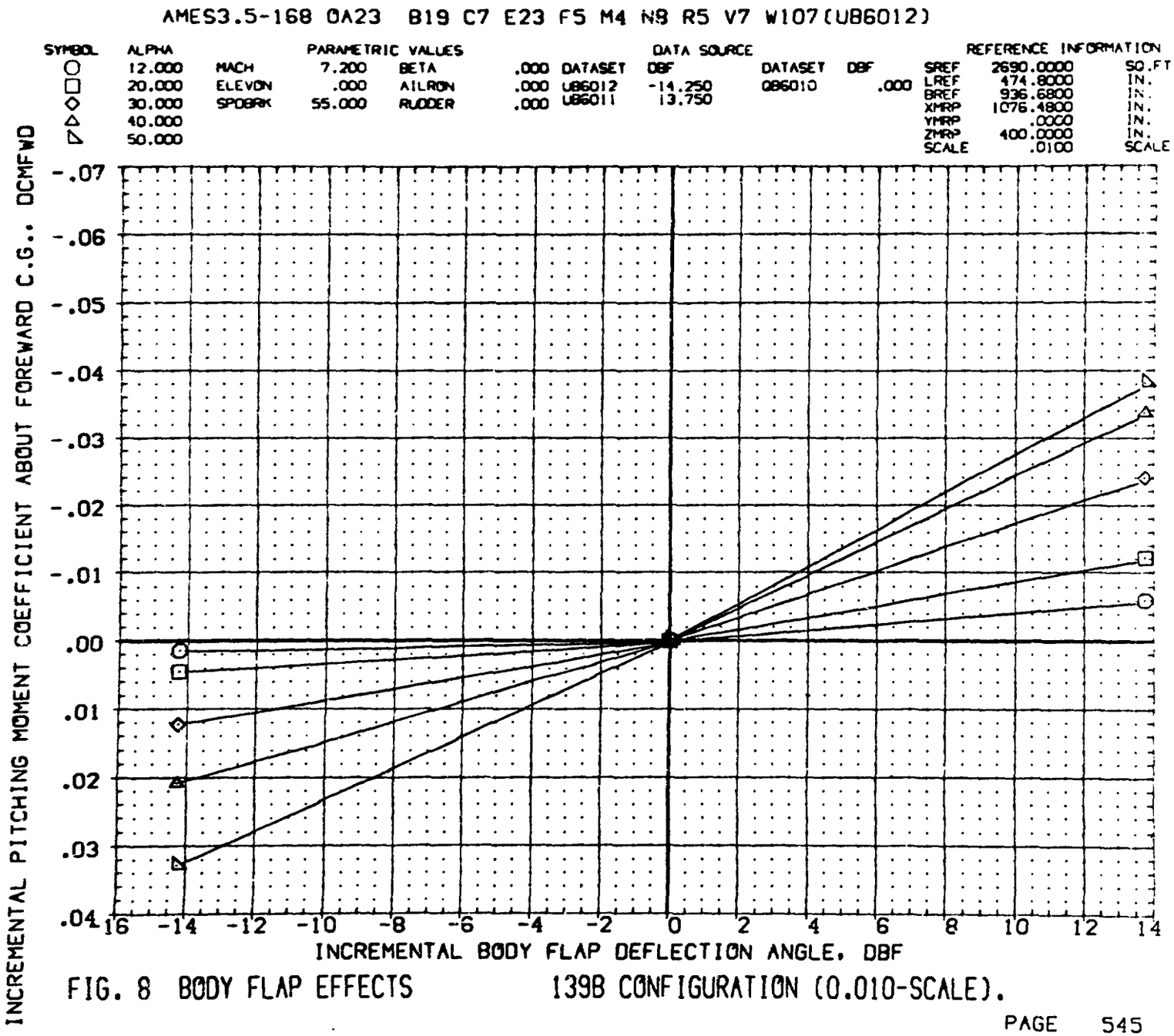


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

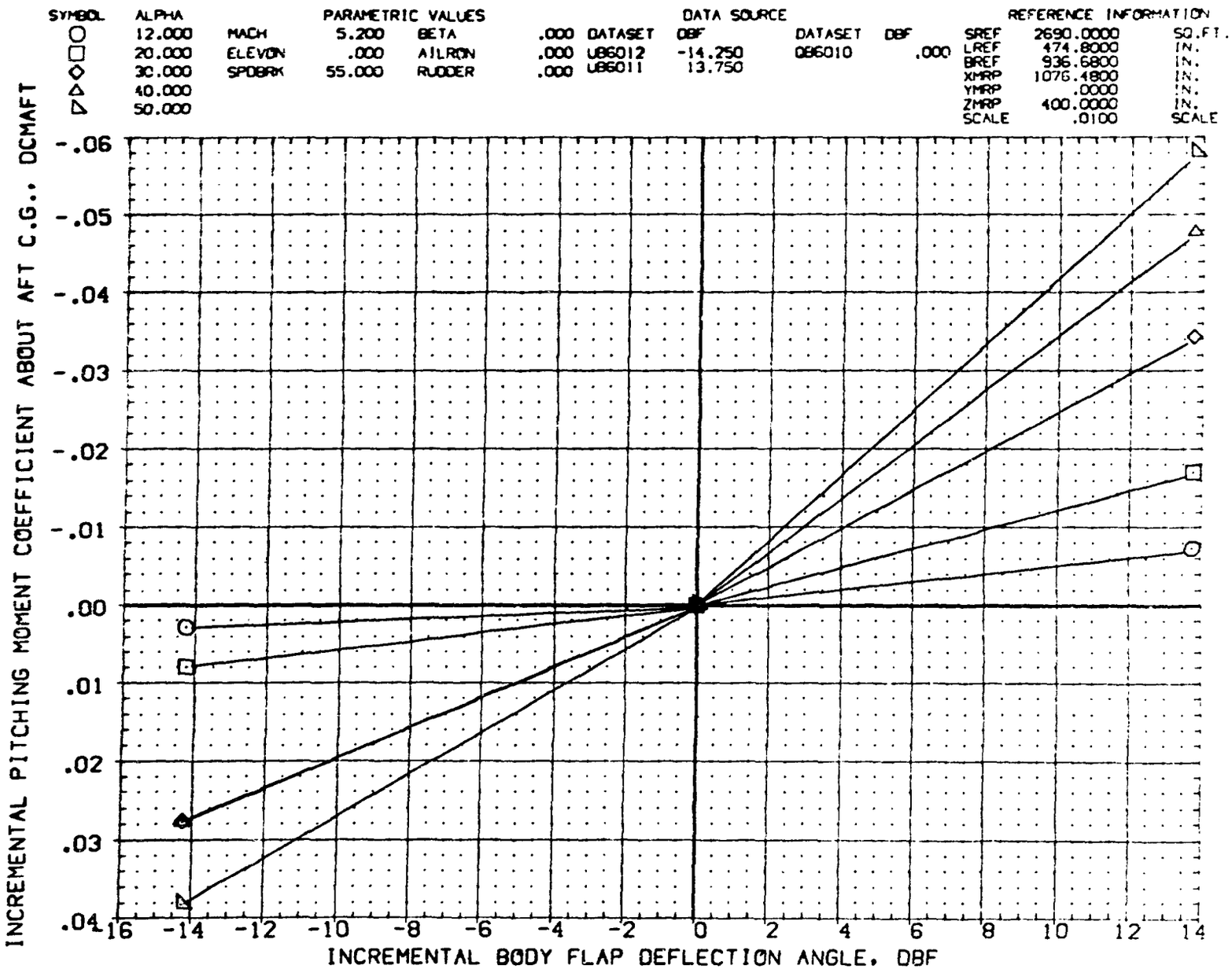


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	12.000	MACH	7.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6012	-14.250	UB6010	.000	LREF	474.8000	IN.
◇	30.000	SPDBRK	55.000	RUDDER	.000	UB6011	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▷	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

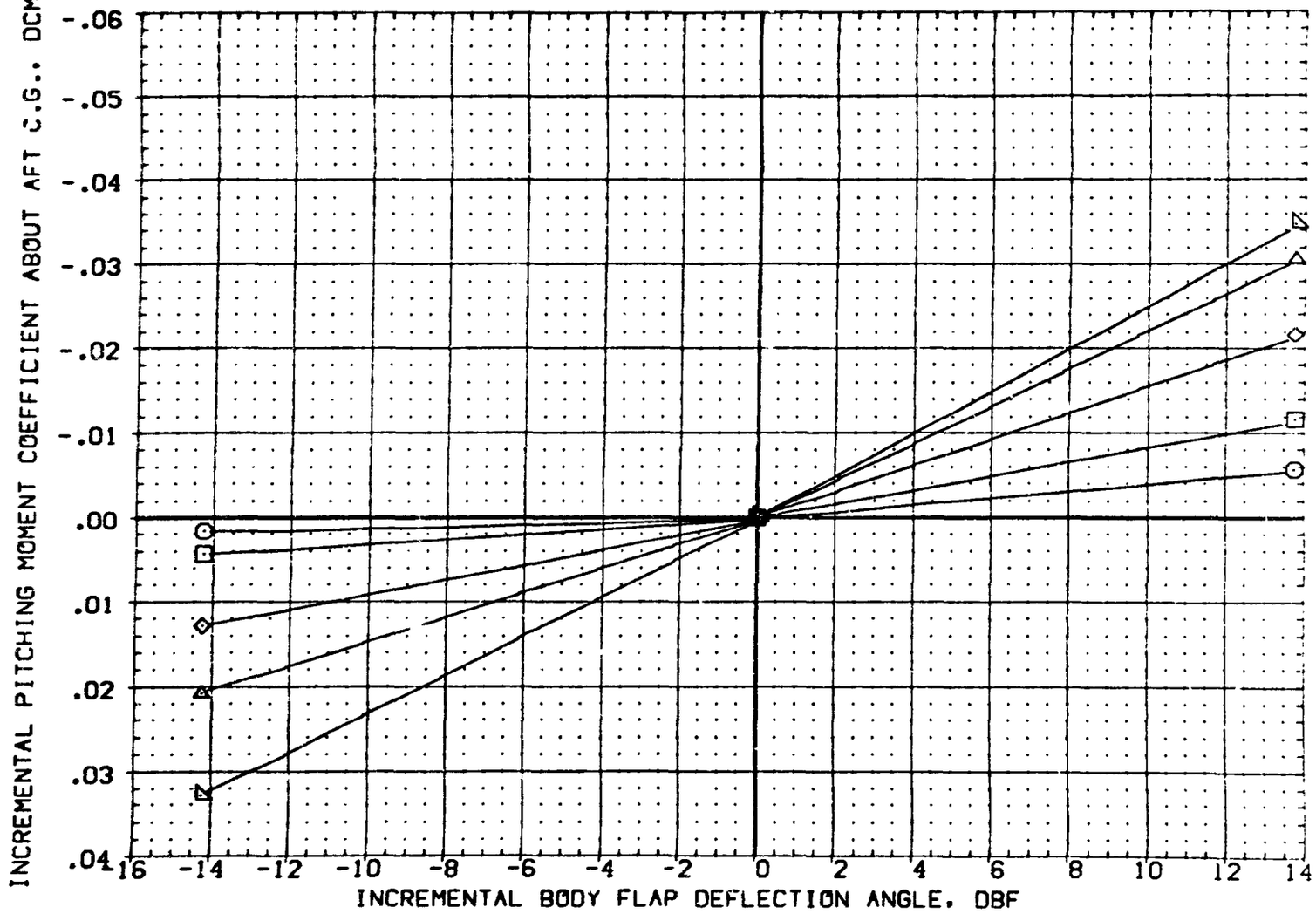


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6U18)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE					REFERENCE INFORMATION		
○	12.000	MACH	7.200	BETA	.000	DATASET	DBF		DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	-40.000	AILRON	.000	UB6U18	-14.250		086017	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6016	13.750				BREF	936.6800	IN.
△	40.000										XMRP	1076.4800	IN.
▷	50.000										YMRP	.0000	IN.
											ZMRP	400.0000	IN.
											SCALE	.0100	SCALE

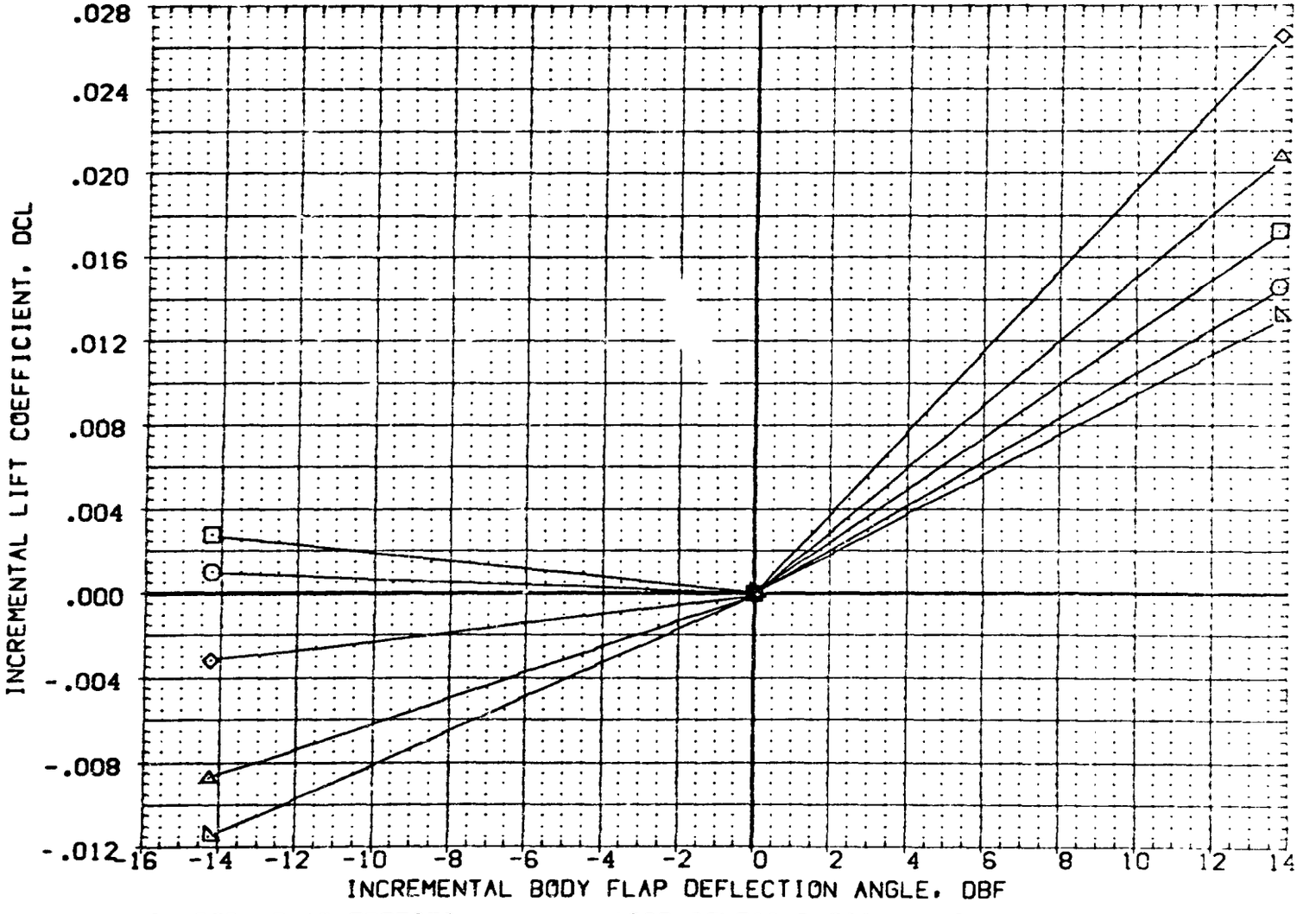


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

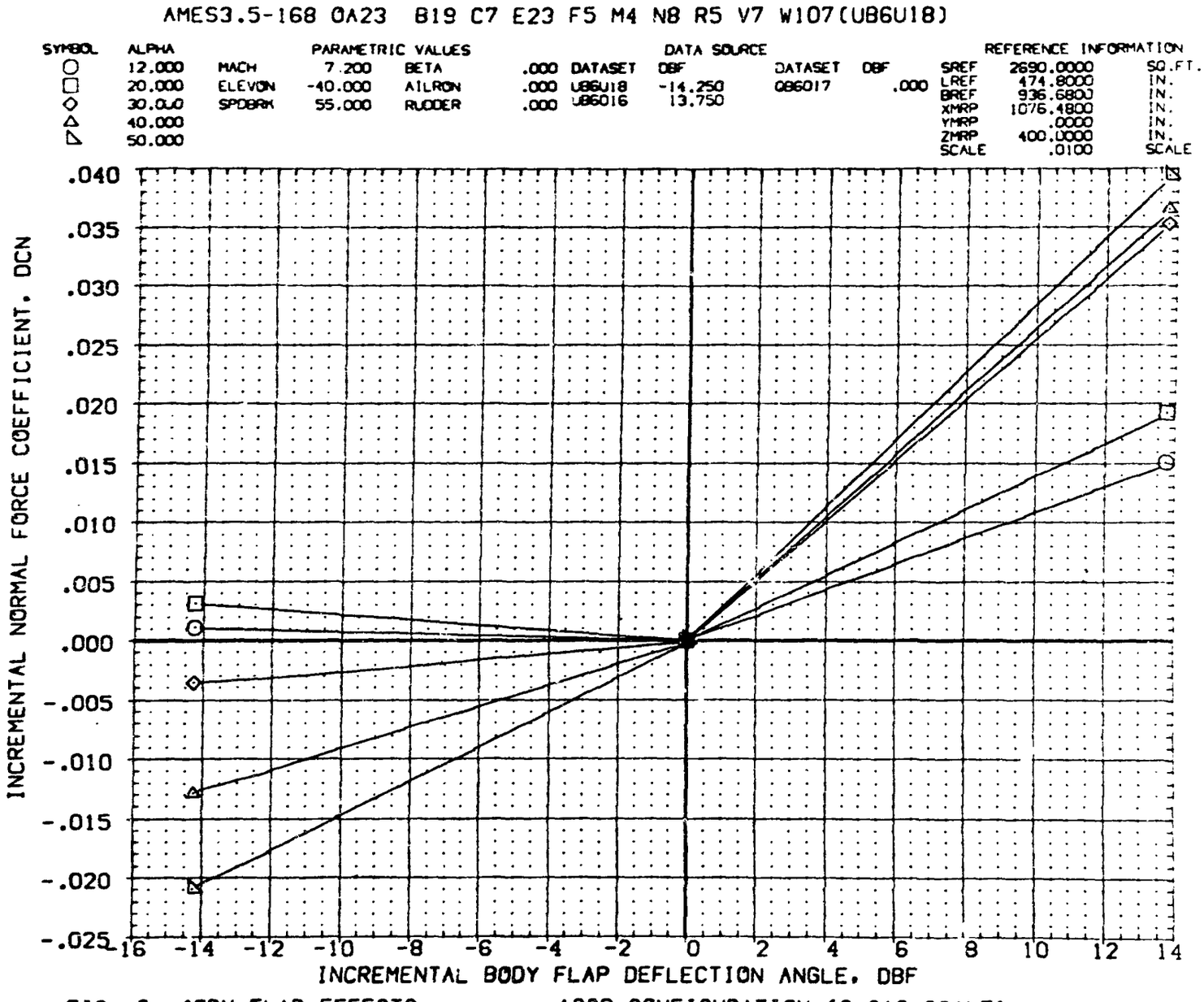


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

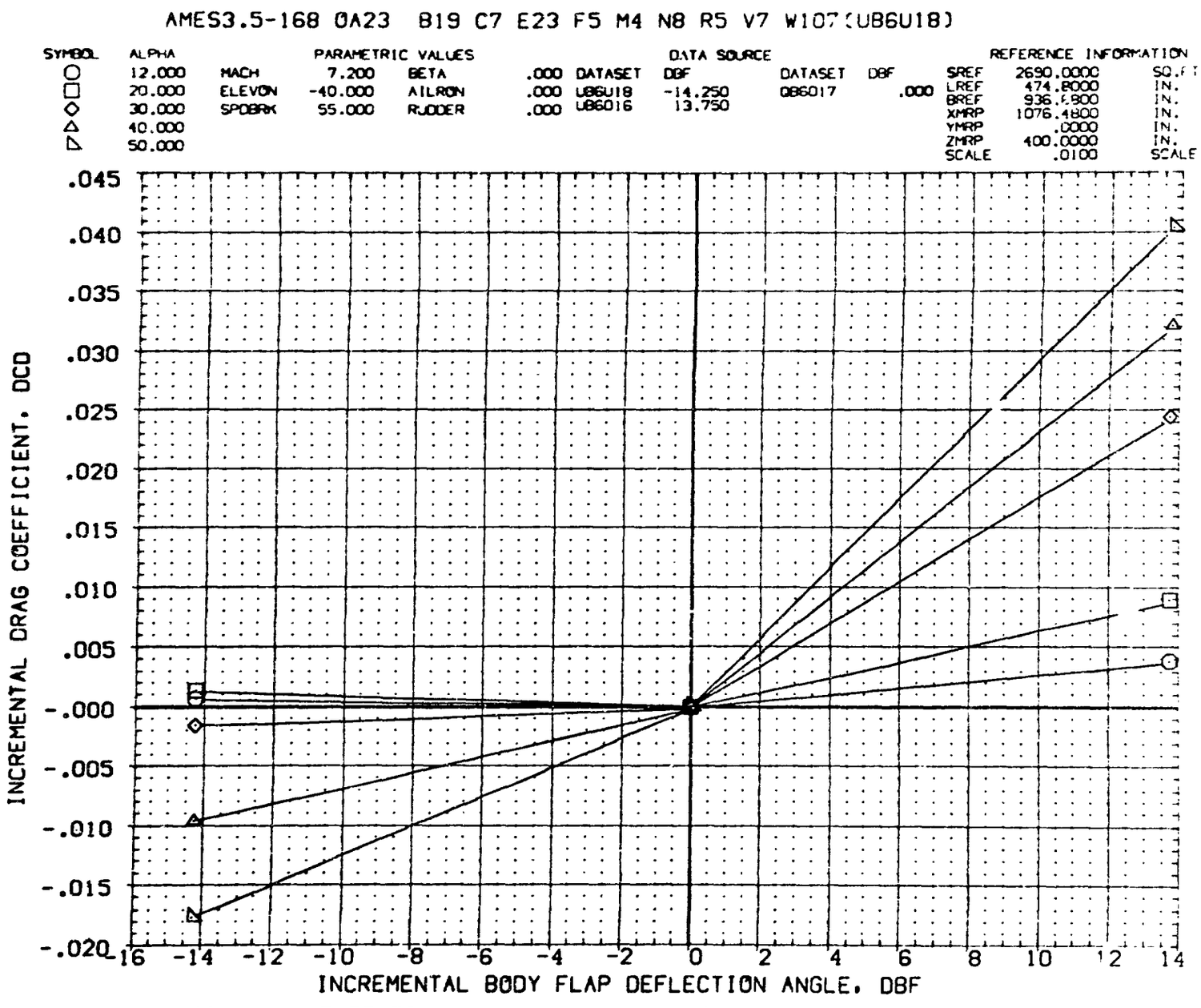


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UBGU18)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE					REFERENCE INFORMATION		
○	12.000	MACH	7.200	BETA	.000	DATASET	DBF	DATASET	DBF		SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	-40.000	AILRON	.000	UBGU18	-14.250	086017		.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6016	13.750				BREF	936.6800	IN.
△	40.000										XMRP	1076.4800	IN.
▽	50.000										YMRP	.0000	IN.
											ZMRP	400.0000	IN.
											SCALE	.0100	SCALE

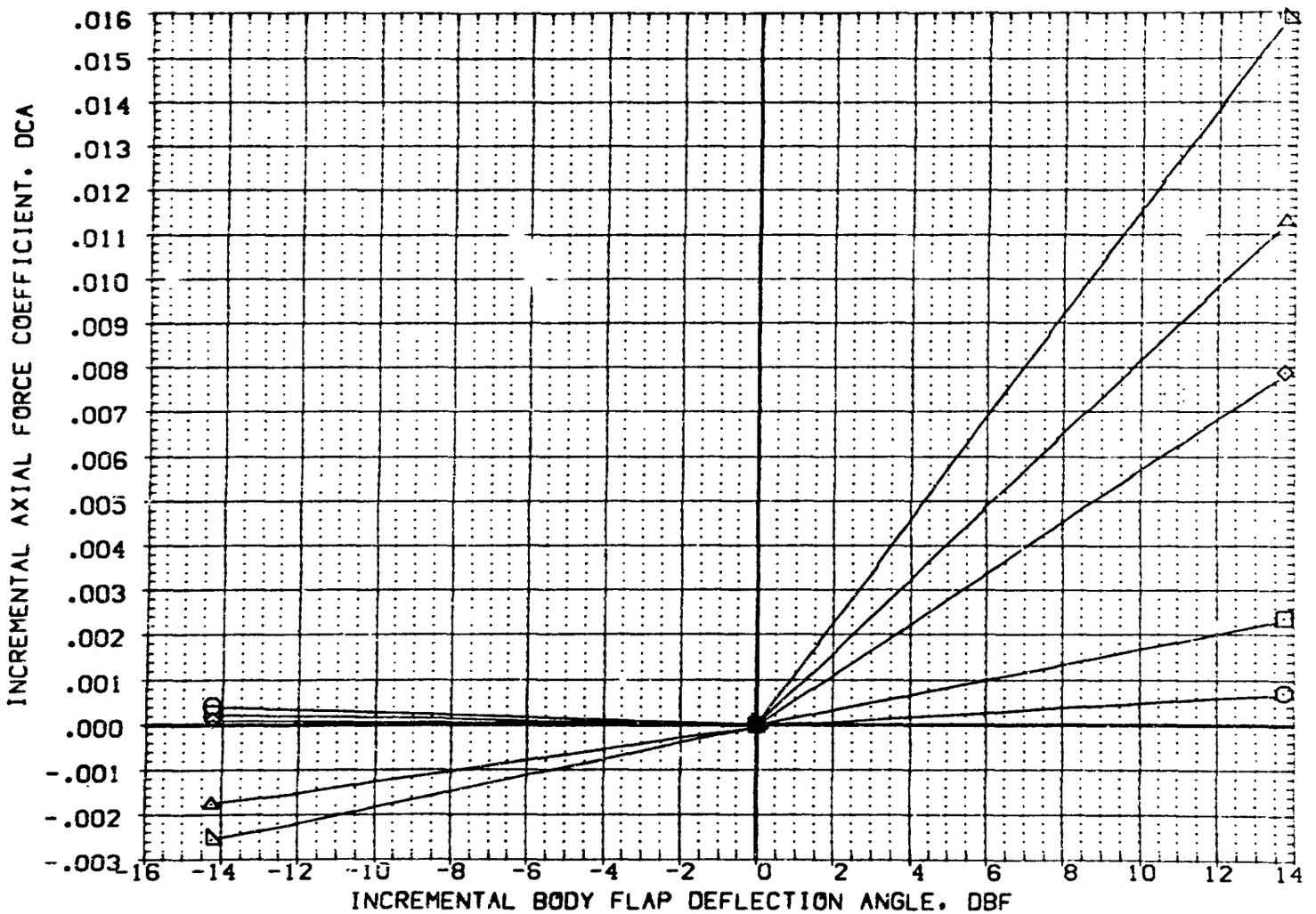


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6U18)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE					REFERENCE INFORMATION		
○	12.000	MACH	7.200	BETA	.000	DATASET	DBF	DATASET	DBF		SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	-40.000	AILRON	.000	UB6U18	-14.250	035017	.000		LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6016	13.750				BREF	936.6800	IN.
△	40.000										XMRP	1076.4800	IN.
▷	50.000										YMRP	.0000	IN.
											ZMRP	400.0000	IN.
											SCALE	.0100	SCALE

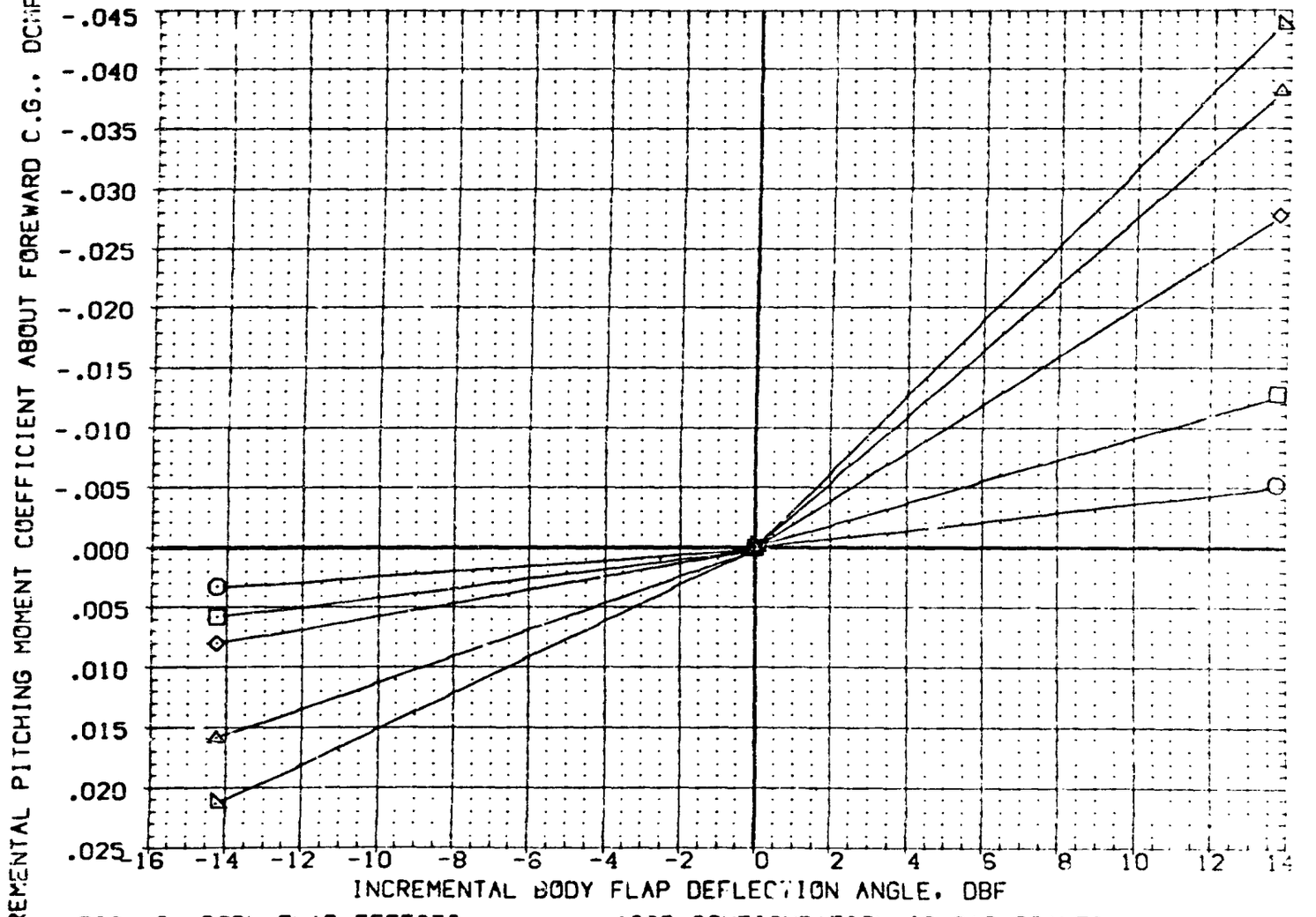


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

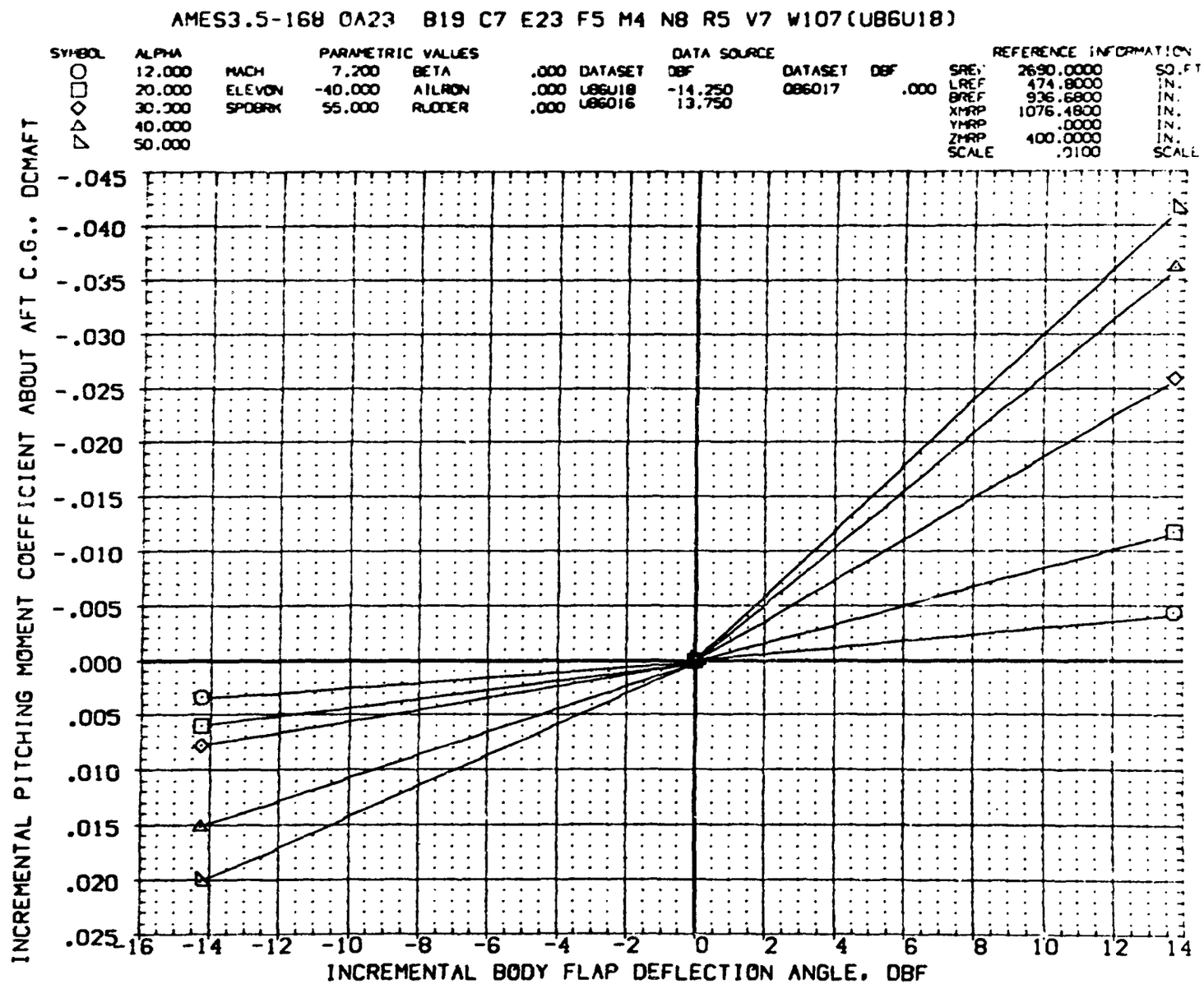


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPOBRK	RUDDER
(886825)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000
(886012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(886032)	⊠	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000
(886033)	△	DATA NOT AVAILABLE	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.6000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

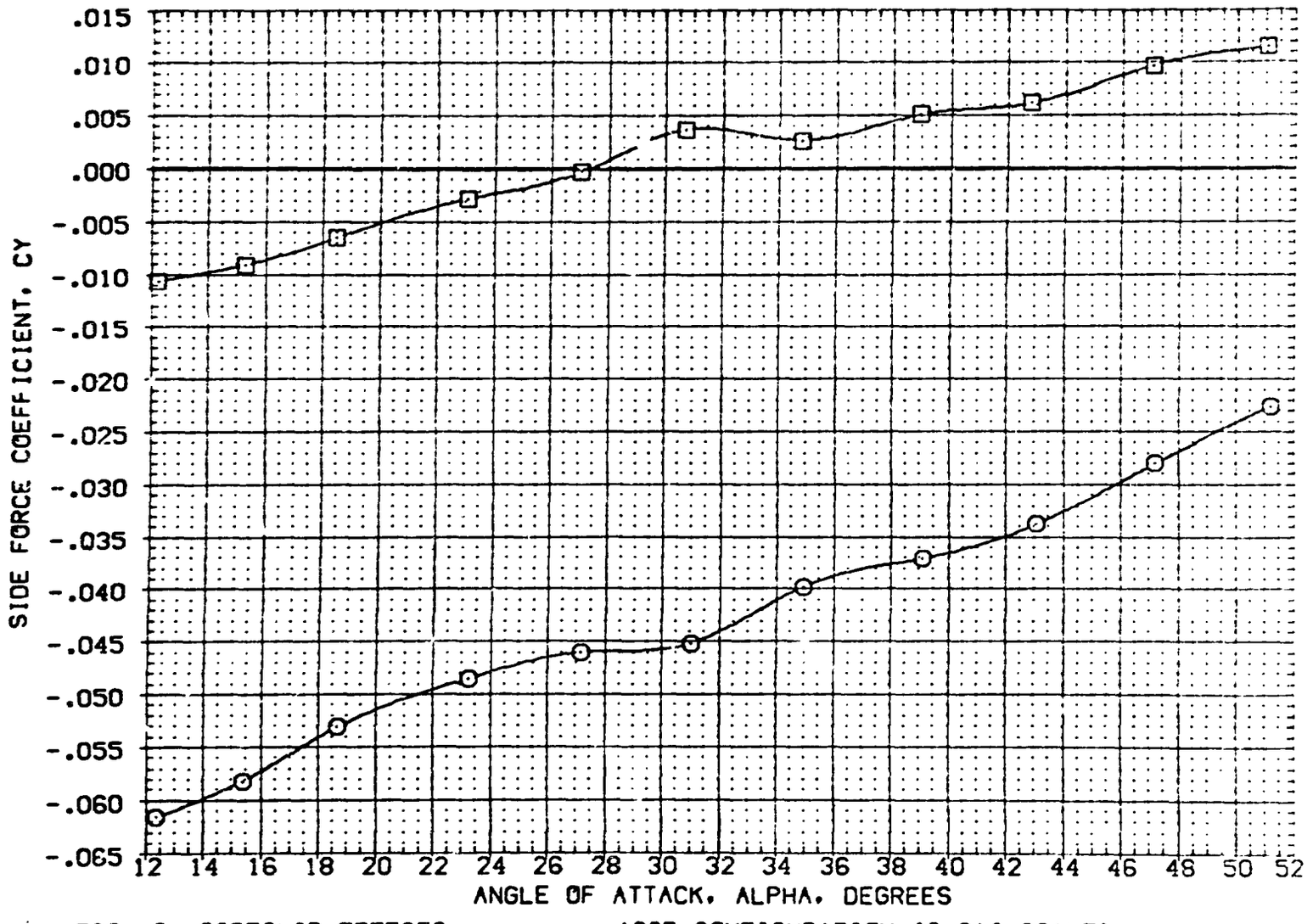


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPOBRK	RUDDER
(B06825)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000
(B06012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(B06032)	◇	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000
(B06033)	△	DATA NOT AVAILABLE	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.0000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

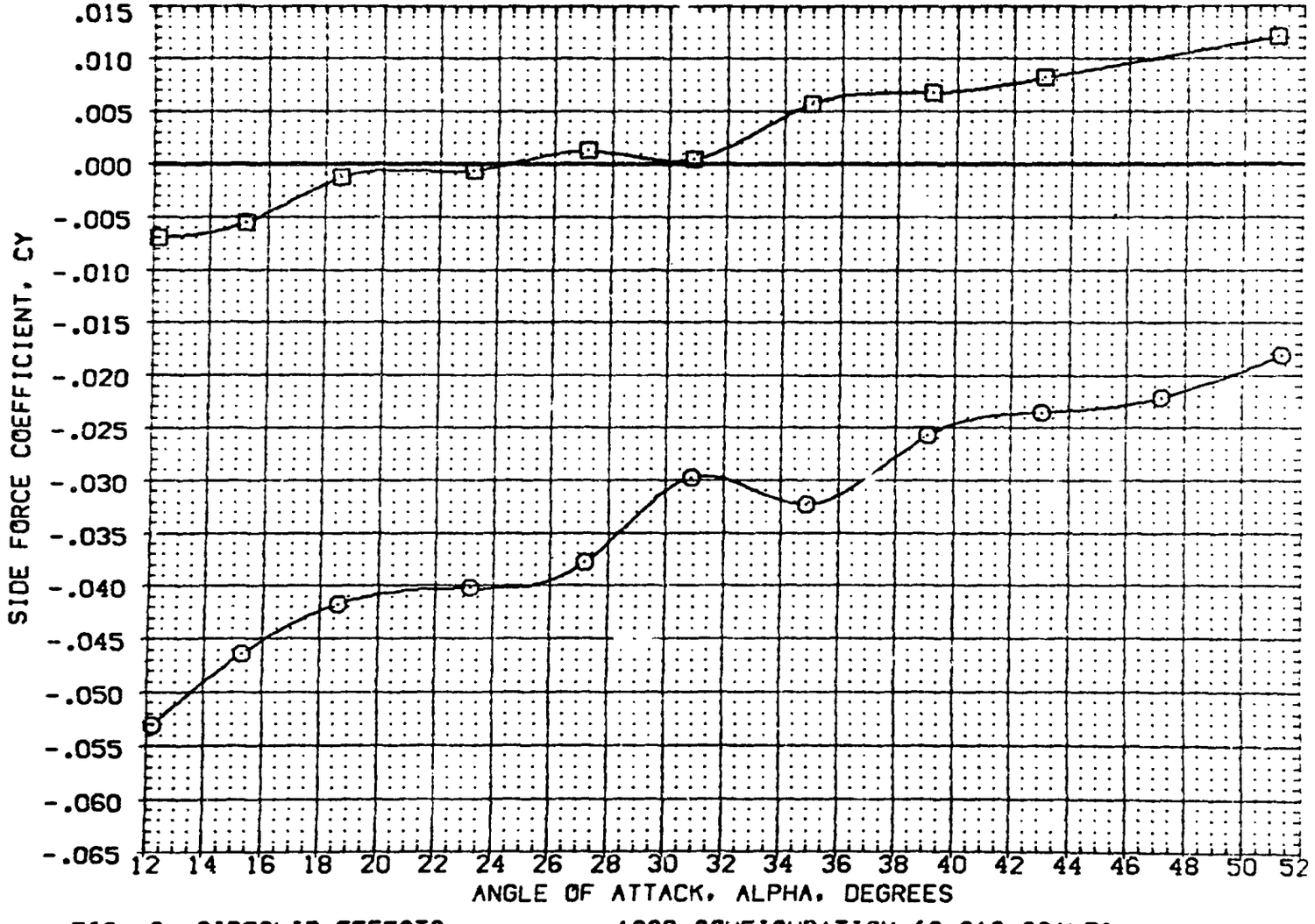


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPDBRK	RUDDER
(886825)	○	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000
(886012)	□	DATA NOT AVAILABLE	.000	-14.250	55.000	.000
(806032)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000
(886033)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.0000	IN.
XMRP	1078.0000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

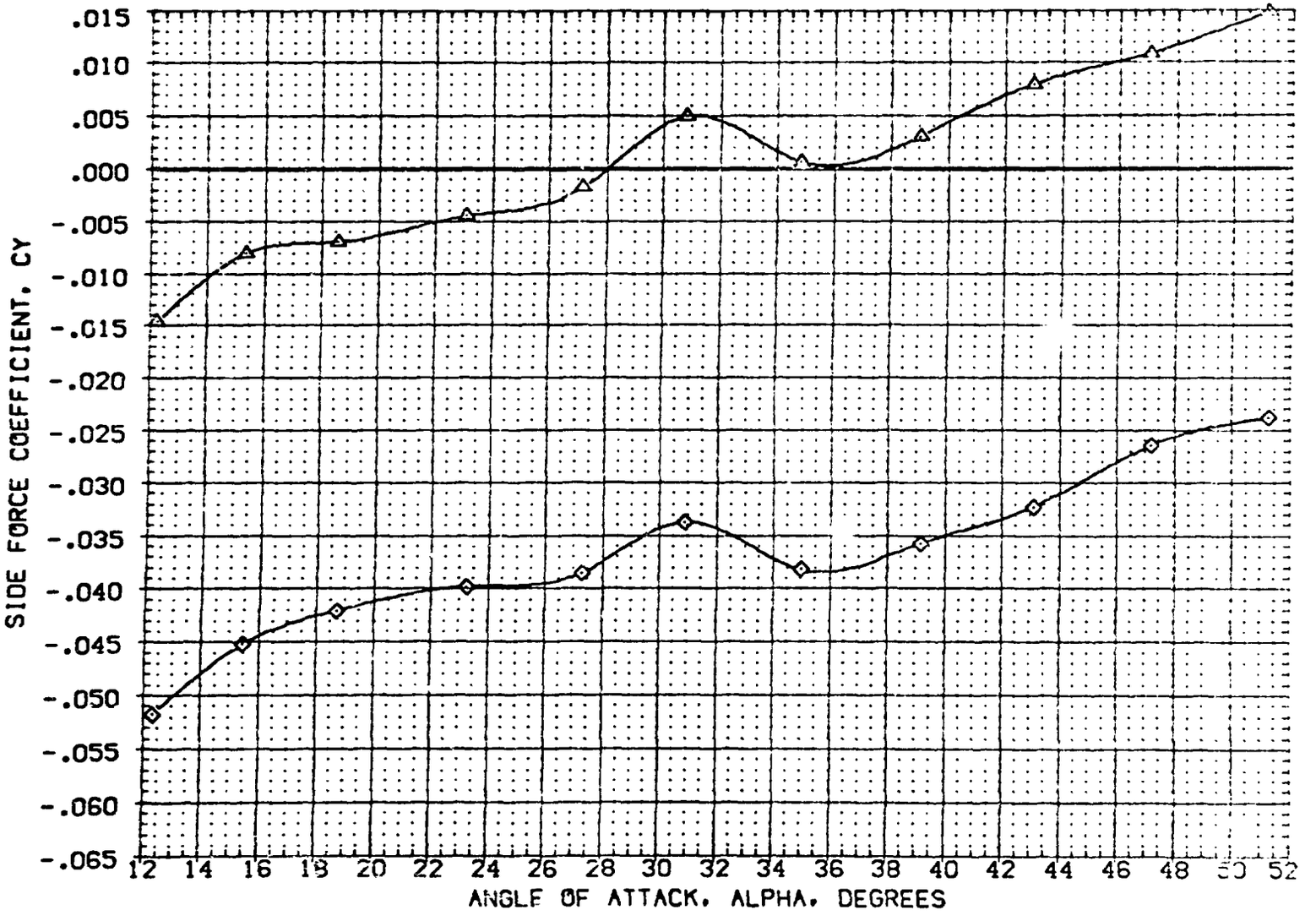


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPDBRK	RUDDER
(886825)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000
(886012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(886032)	◇	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000
(886033)	△	DATA NOT AVAILABLE	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.[illegible]000	IN.
BREF	930.[illegible]000	IN.
XMPP	1070.[illegible]000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

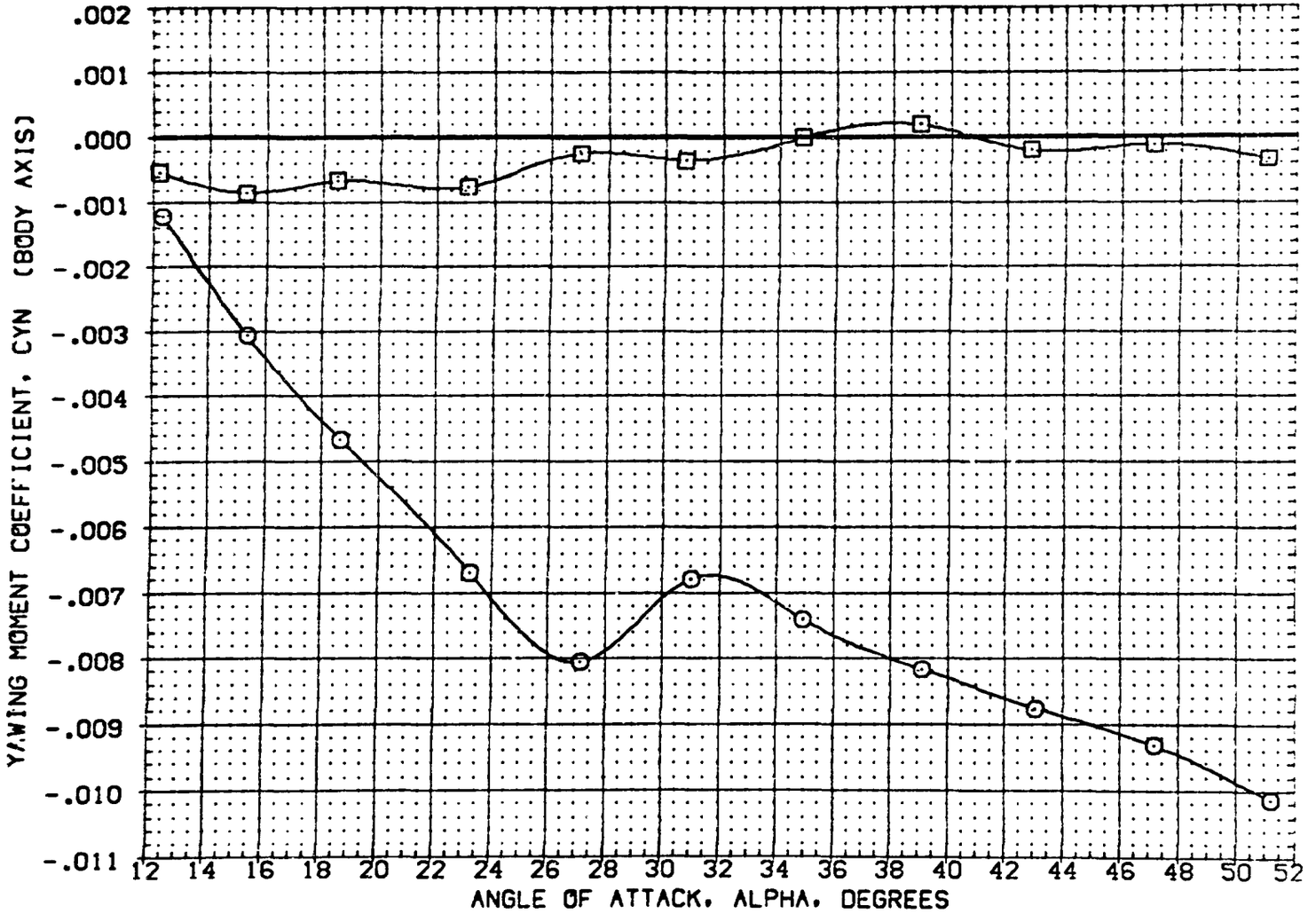


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER
(886825)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000
(886012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(886032)	◇	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000
(886033)	△	DATA NOT AVAILABLE	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.0000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

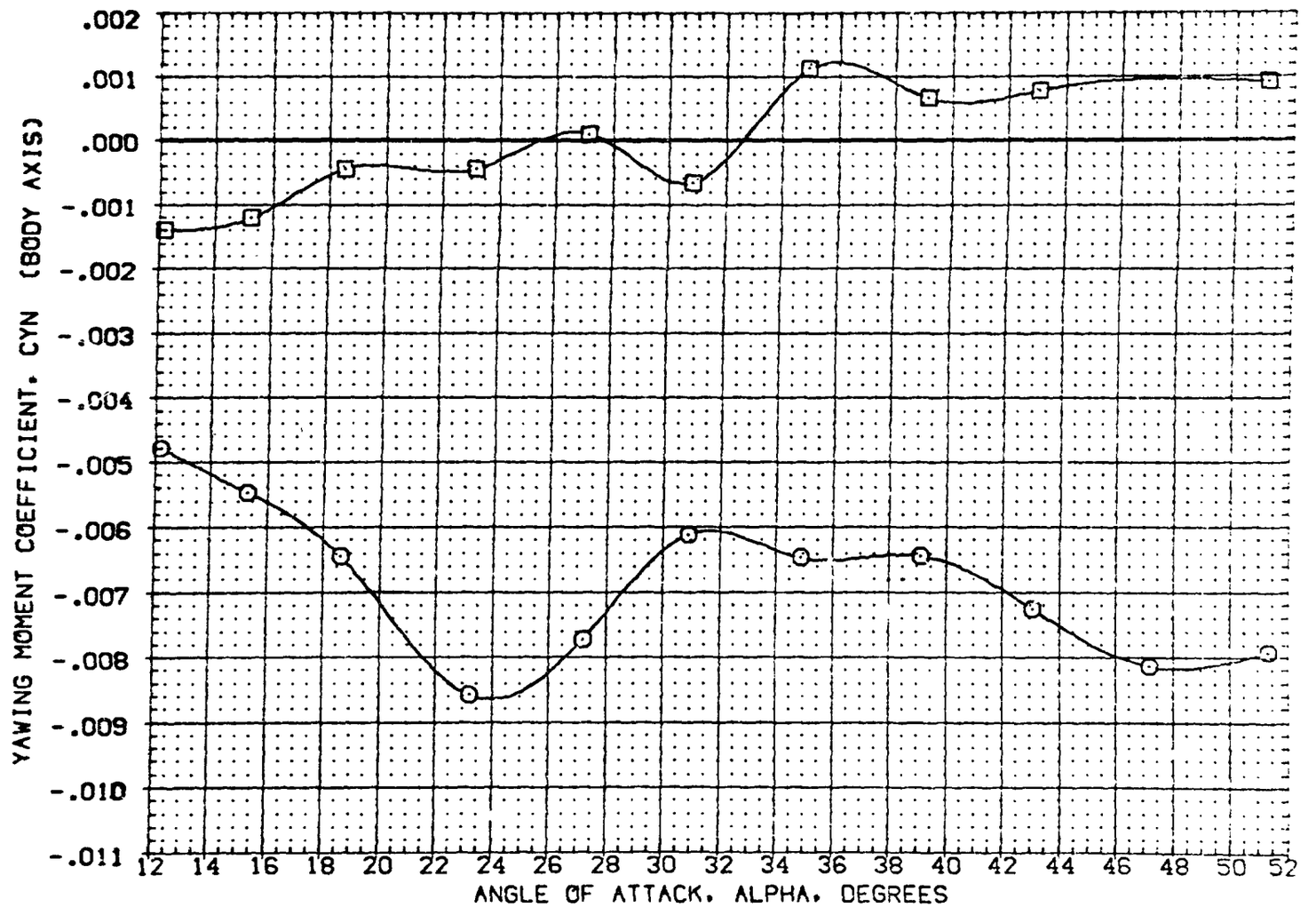


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPDBRK	RUDDER
(886825)	○	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000
(886012)	□	DATA NOT AVAILABLE	.000	-14.250	55.000	.000
(886032)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000
(886033)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	935.6800	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

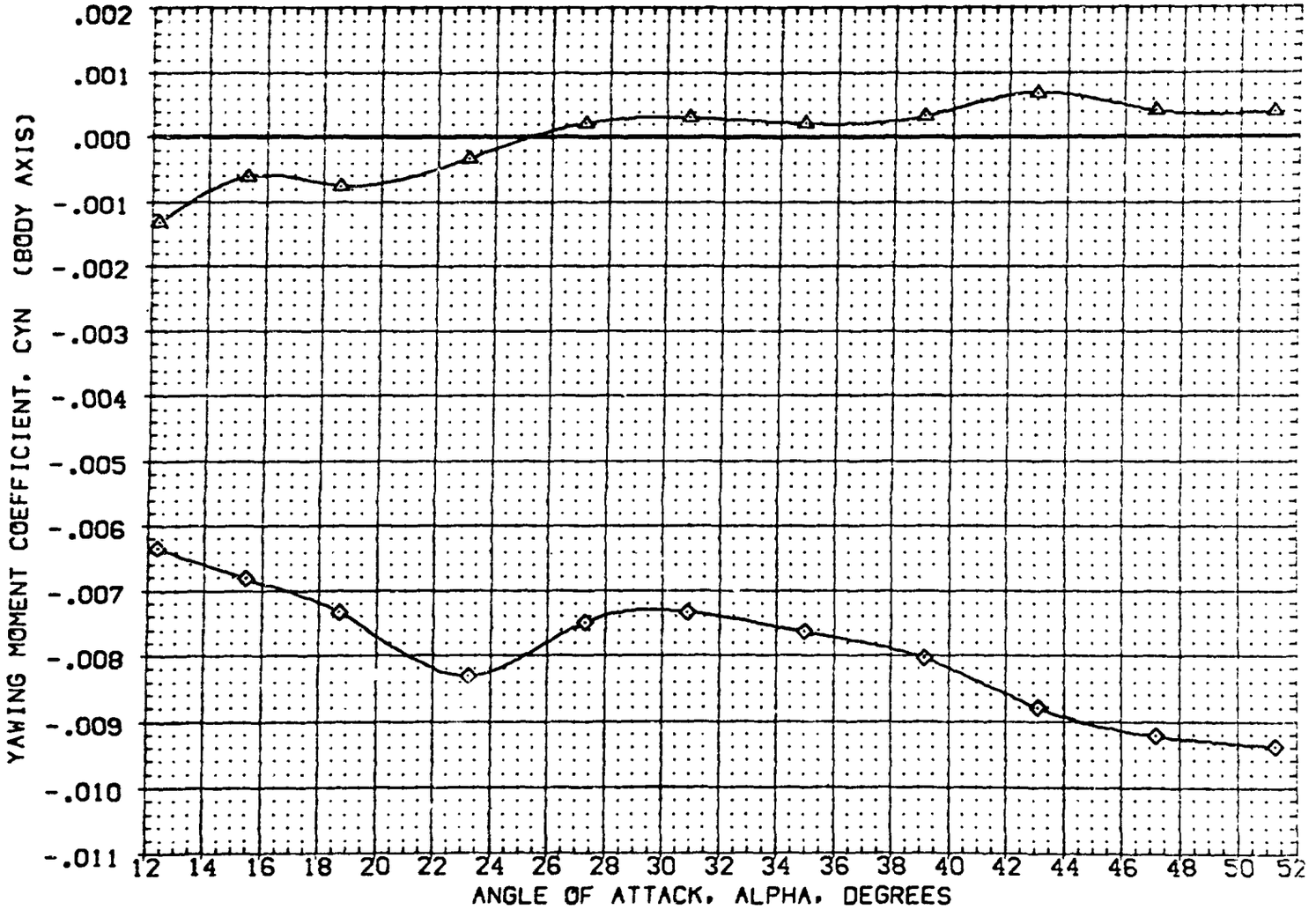


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER
(806825)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000
(806012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000
(806032)	◇	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000
(806033)	△	DATA NOT AVAILABLE	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.0000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

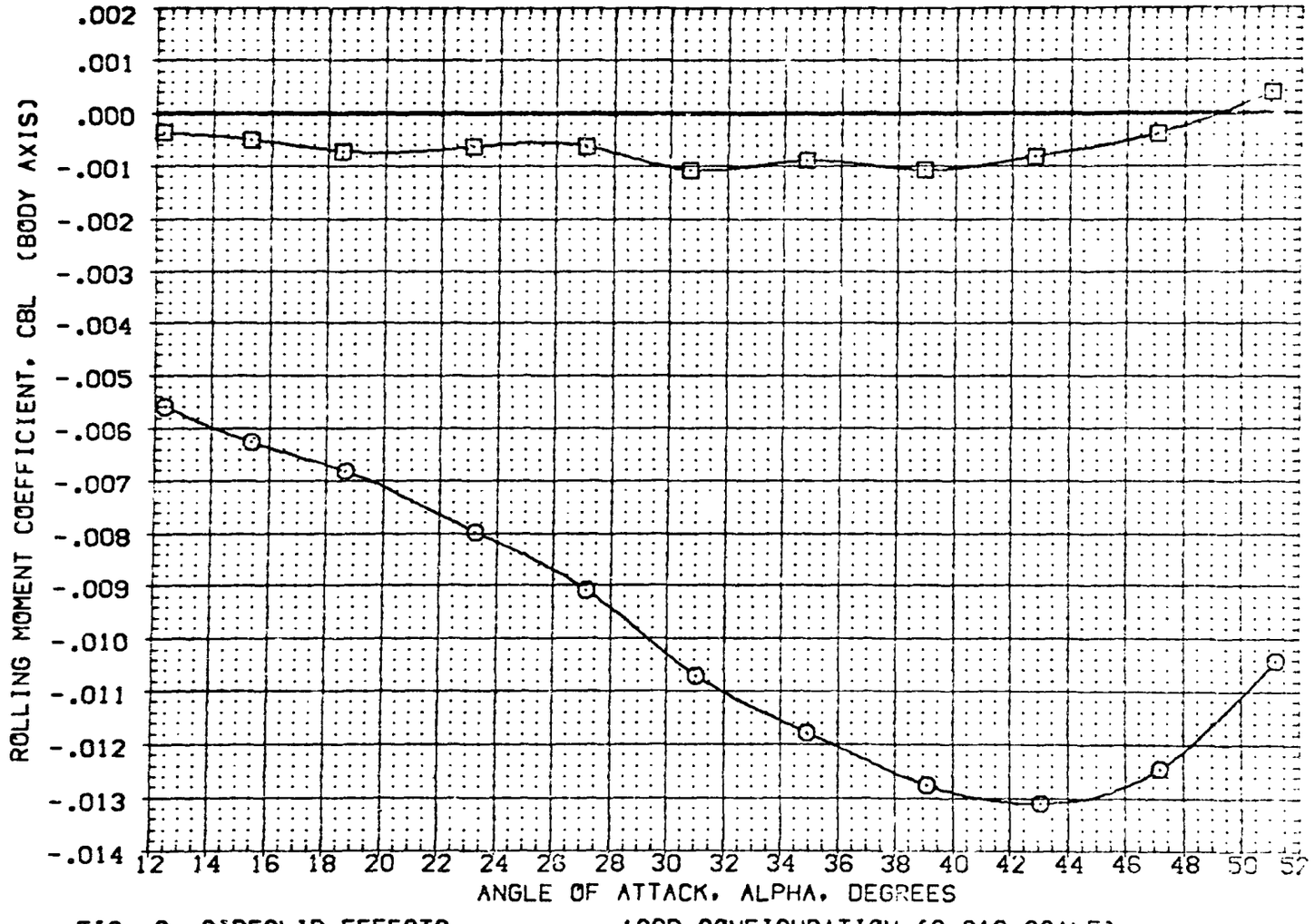


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOILRK	RUDDER
(886825)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	5.000	-14.250	55.000	.000
(886012)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(886032)	⊠	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000
(886033)	△	DATA NOT AVAILABLE	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	900.0000	IN.
XMRP	1078.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

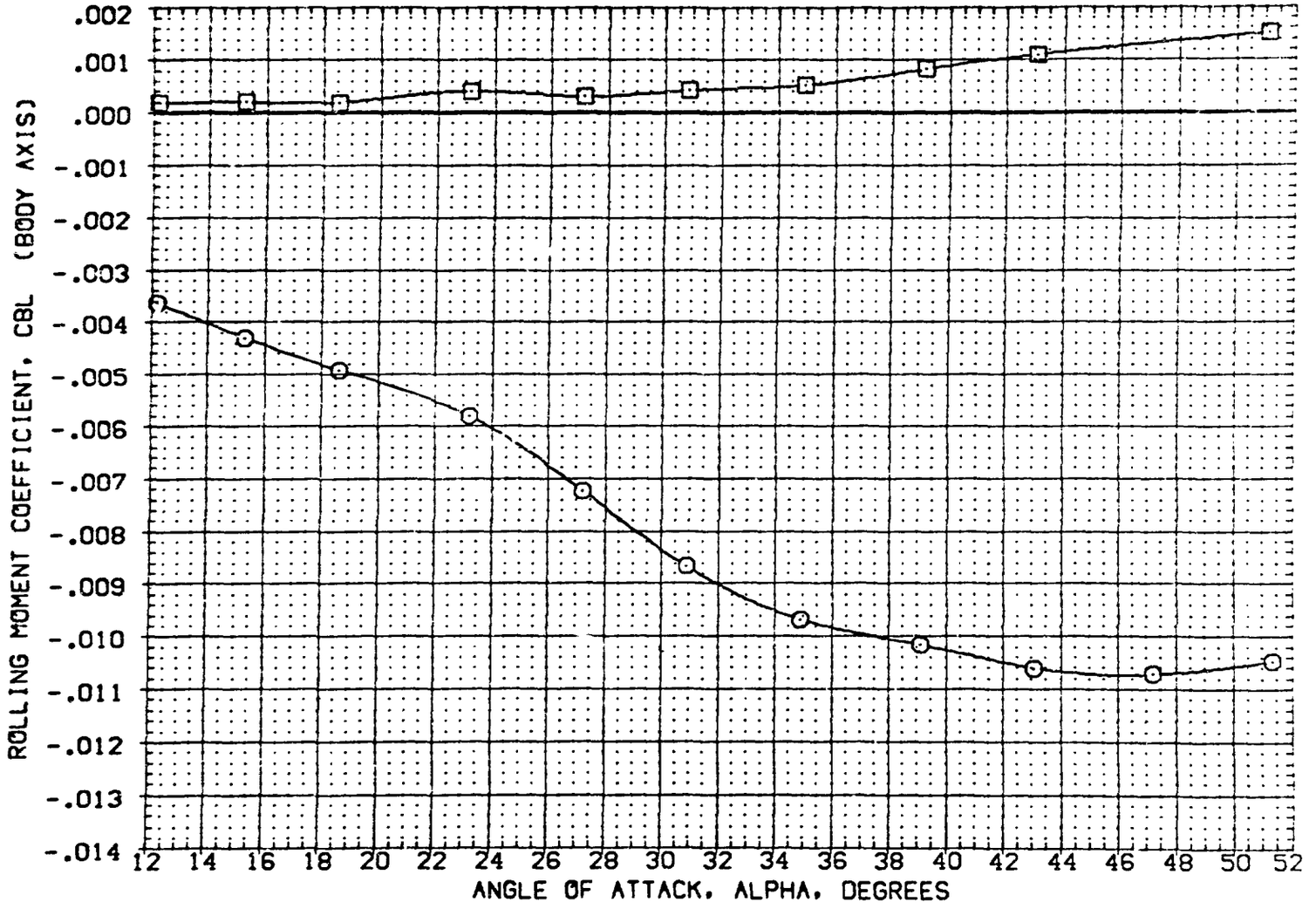


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPOILRK	RUDDER
(886825)	○	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000
(886012)	□	DATA NOT AVAILABLE	.000	-14.250	55.000	.000
(886032)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000
(886033)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	806.8000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

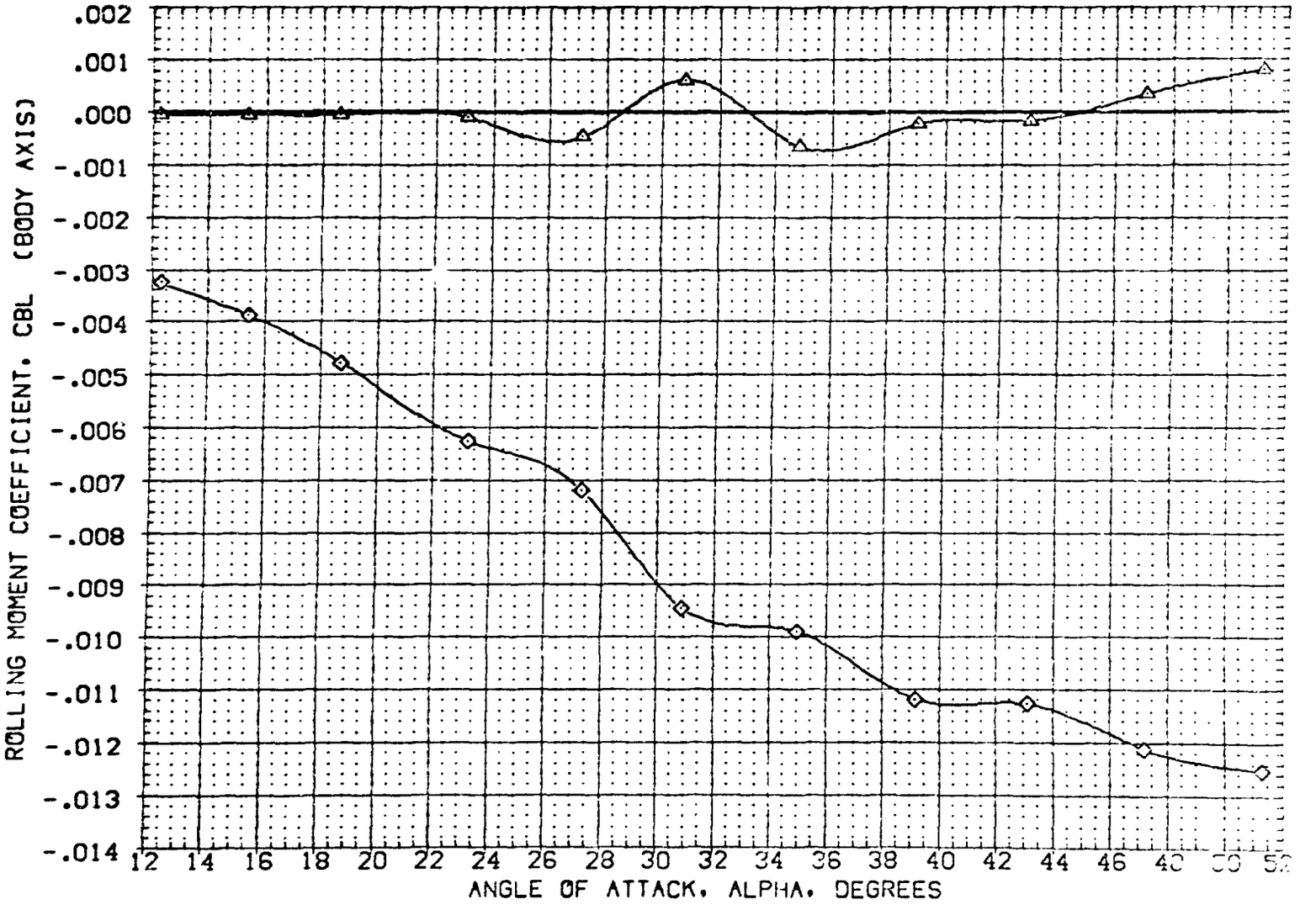


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(VB6025)

SYMBOL	MACH		PARAMETRIC VALUES		
○	5.200	DBETA	5.000	ELEVON	.000
□	7.200	AILRON	.000	BDFLAP	-14.250
◇	10.200	SPOBRK	5.000	RUDDER	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

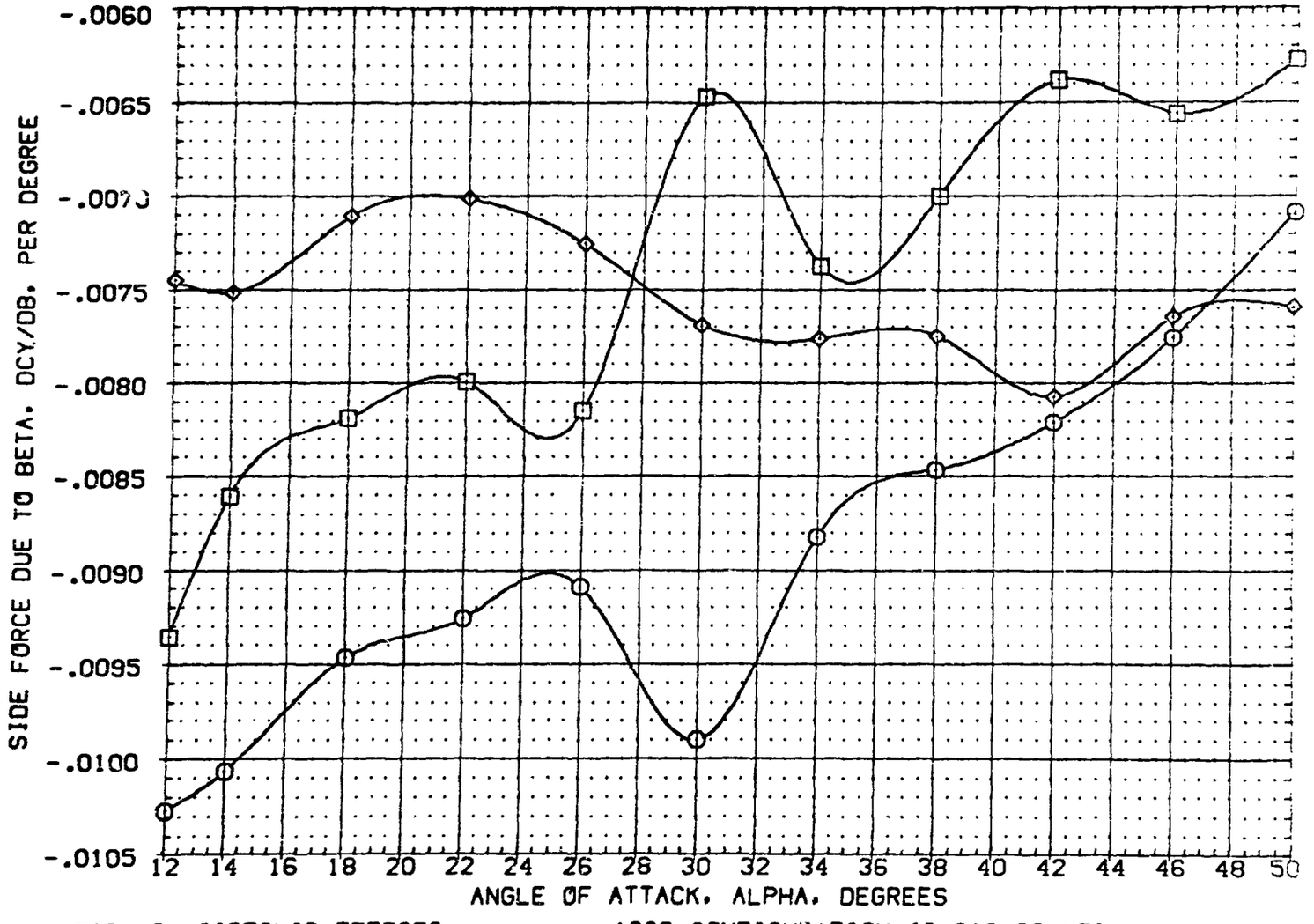


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(VB6025)

SYMBOL	MACH		PARAMETRIC VALUES		
○	5.200	DBETA	5.000	ELEVON	.000
□	7.200	AILRON	.000	BOFLAP	-14.250
◇	10.200	SPDBRK	55.000	RUDDER	.000

REFERENCE INFORMATION

SREF	2300.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.6000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

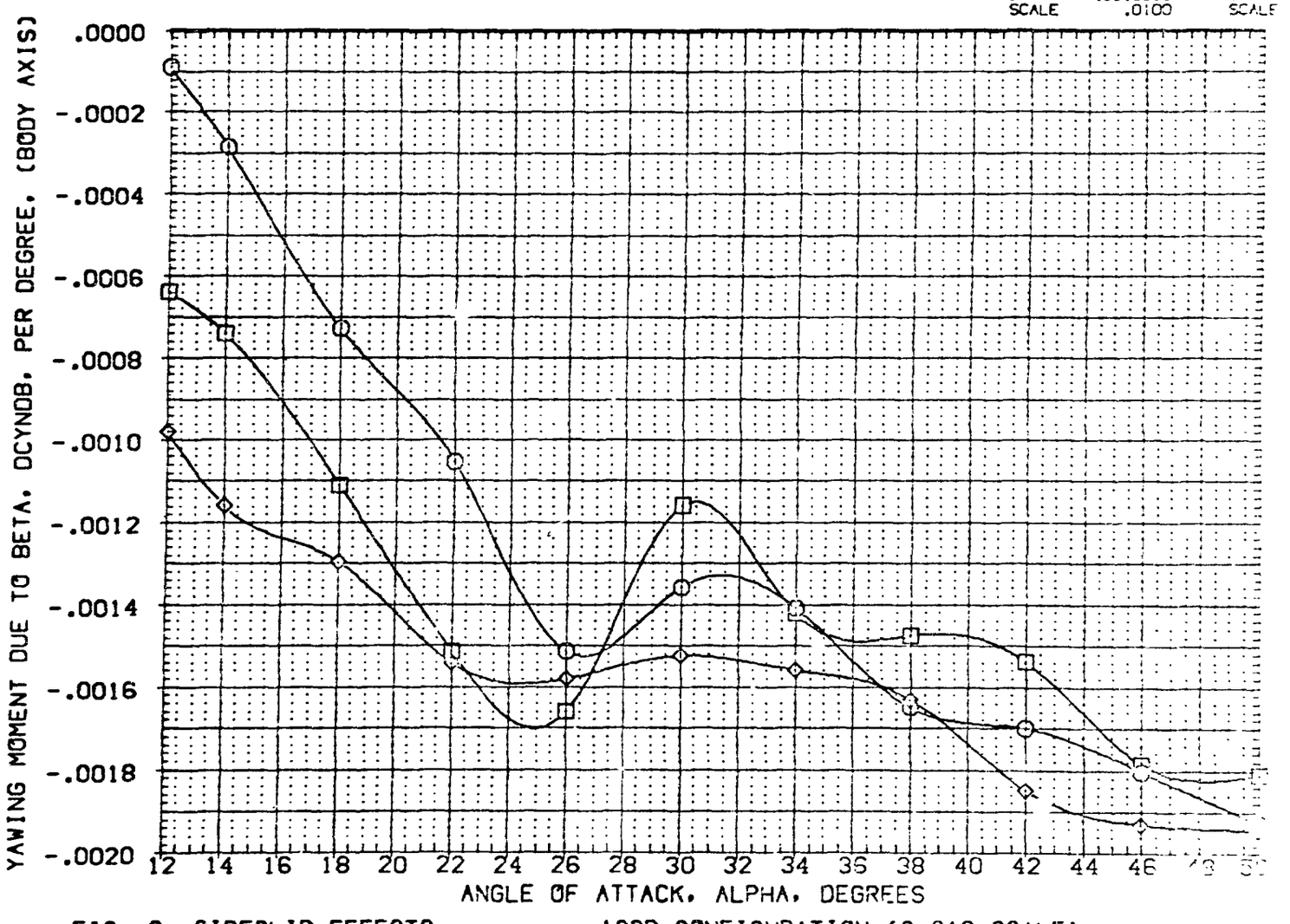


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

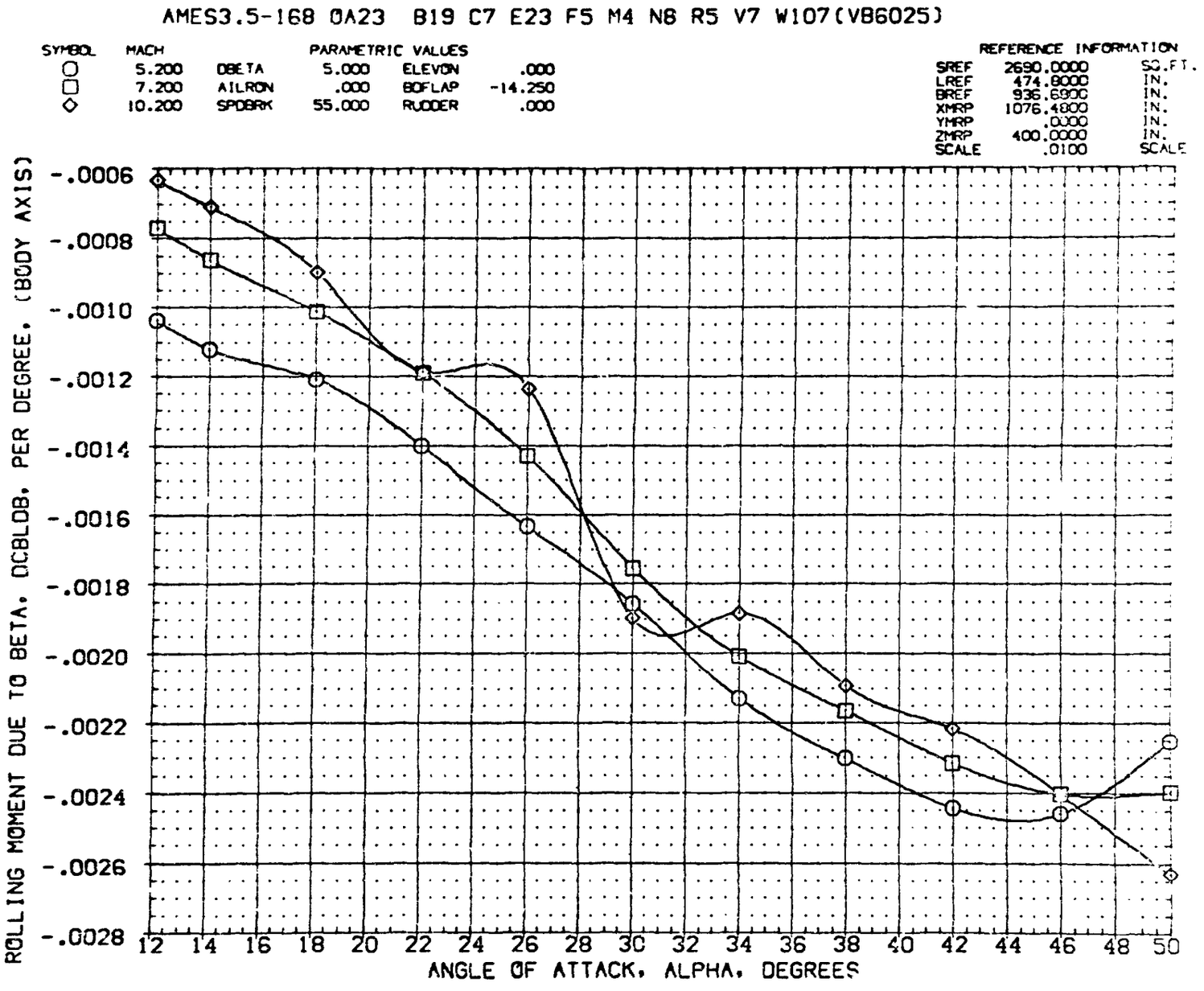


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

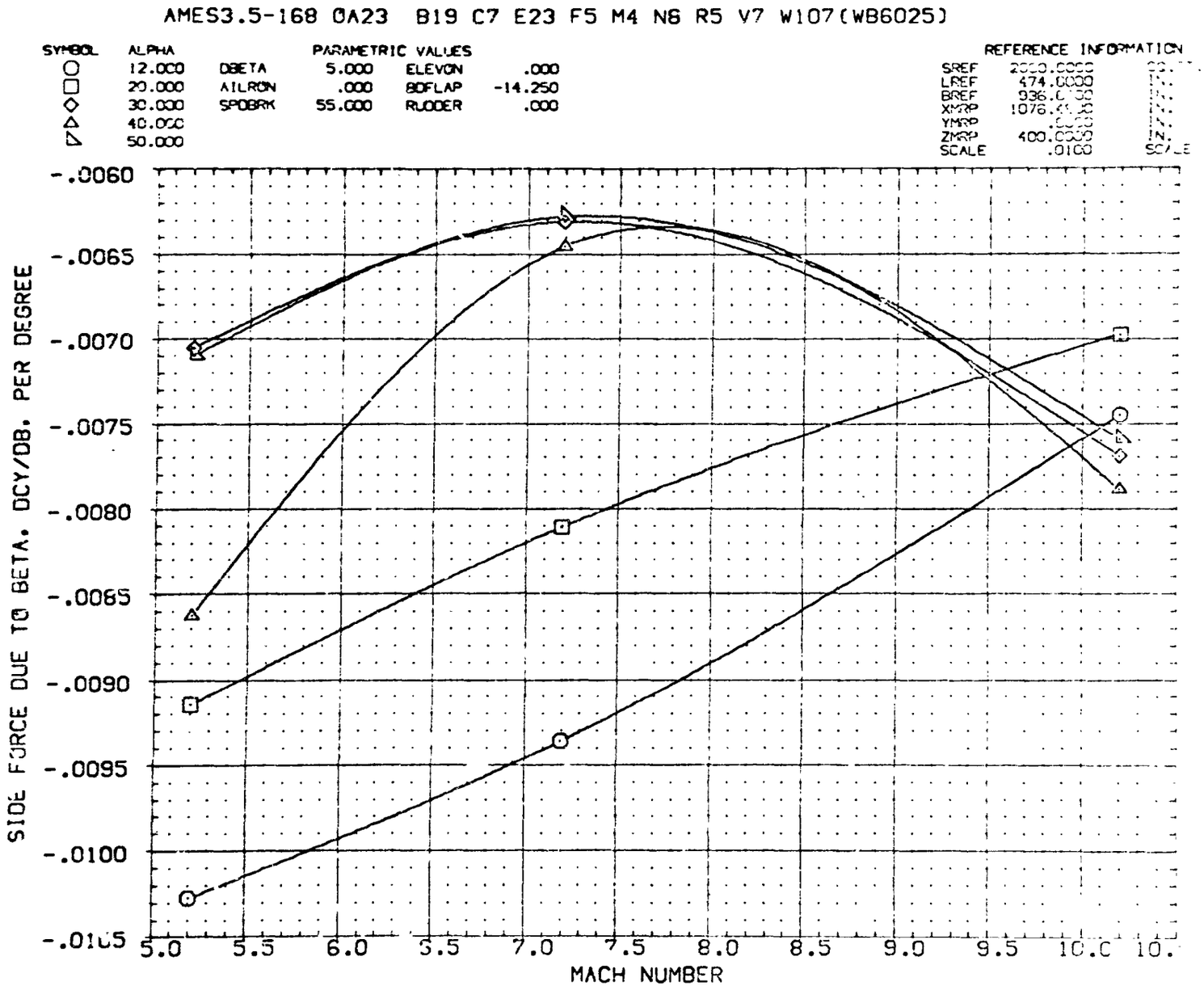


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

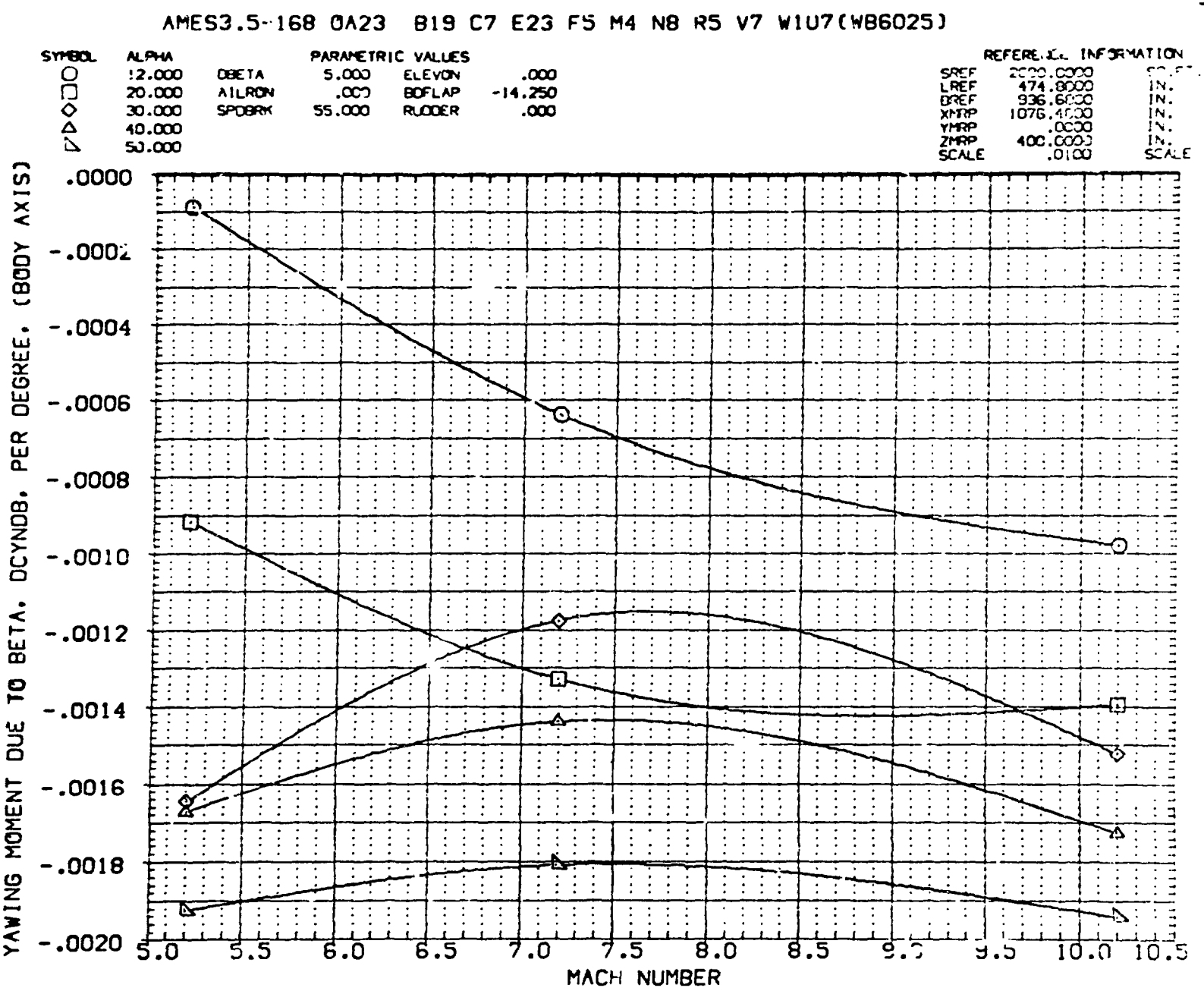


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

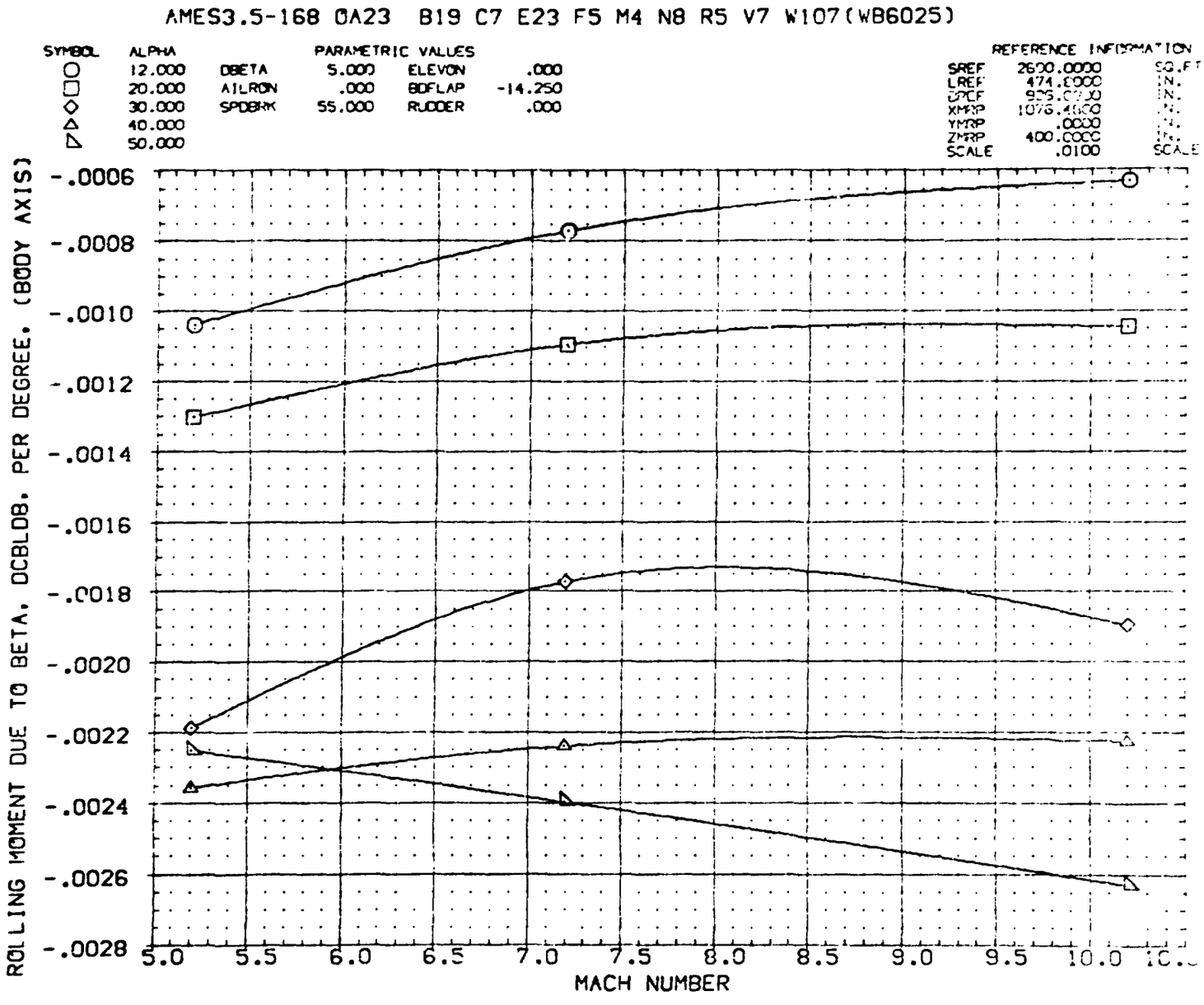


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6031)	○	AMES3.5-168 0A23 B19 C7				
(CB6030)	□	AMES3.5-168 0A23 B19 C7 F5		-14.250		
(CB6029)	◇	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(2B6012)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	936.6500	IN.
XMRP	1076.4100	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

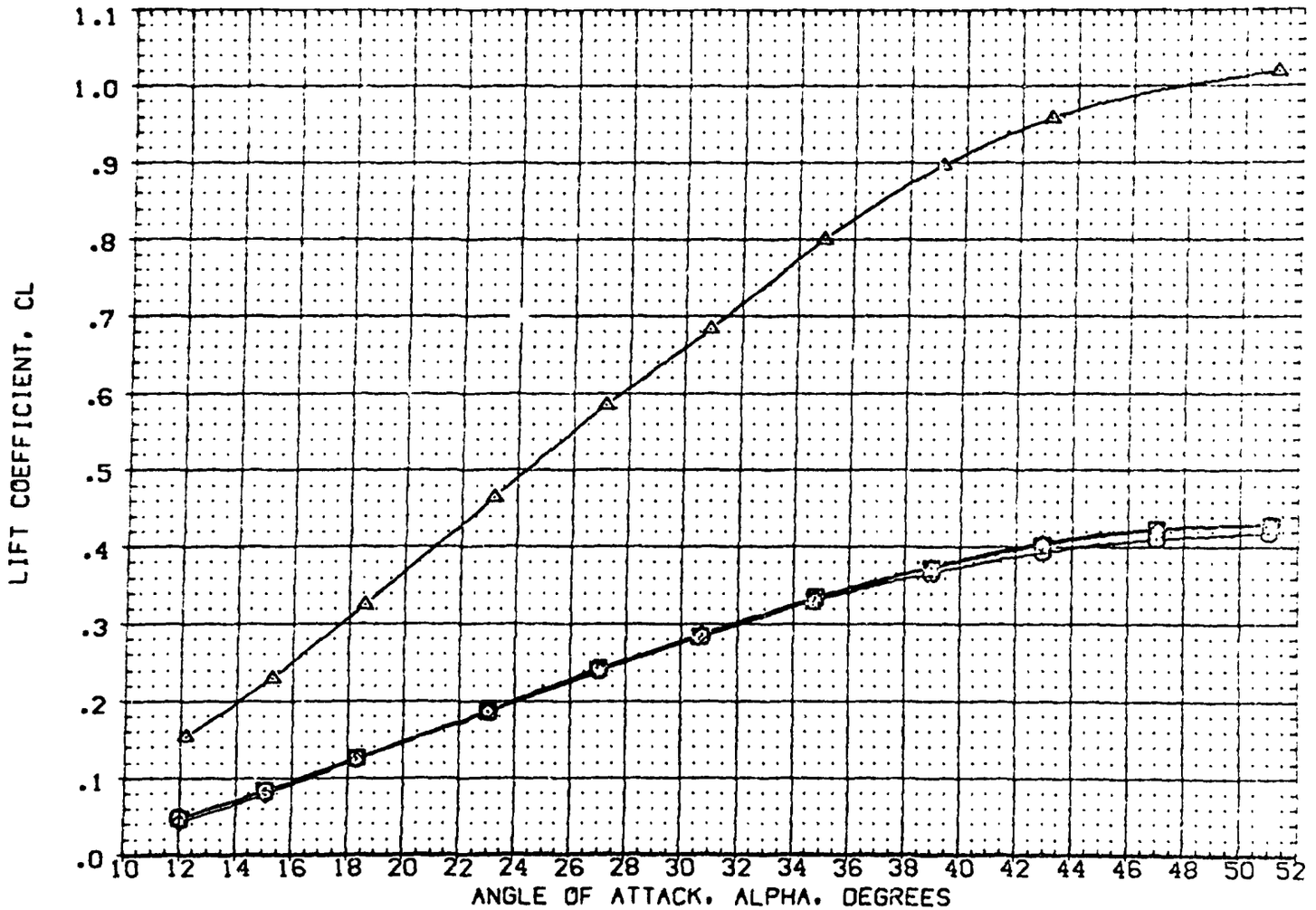


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6031)	○	AMES3.5-168 OA23 B19 C7				
(CB6030)	□	AMES3.5-168 OA23 B19 C7 F5		-14.250		
(CB6029)	⊠	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(286012)	△	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.9000	IN.
BREF	936.6000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

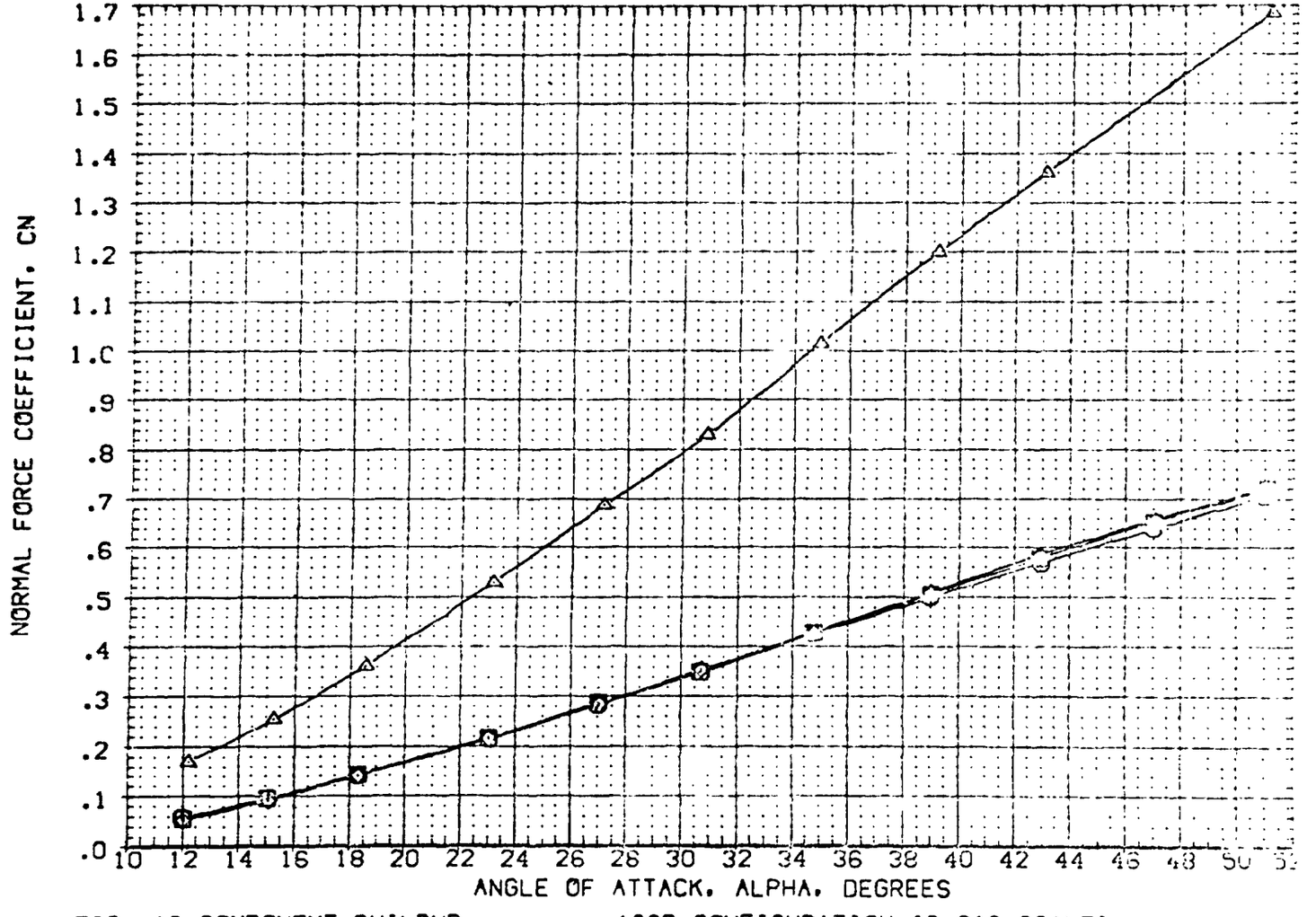


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6031)	○	AMES3.5-168 0A23 B19 C7				
(CB6030)	□	AMES3.5-168 0A23 B19 C7 F5		-14.250		
(CB6029)	◇	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(B6012)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BREF	936.0000	IN.
XMRP	1070.0000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

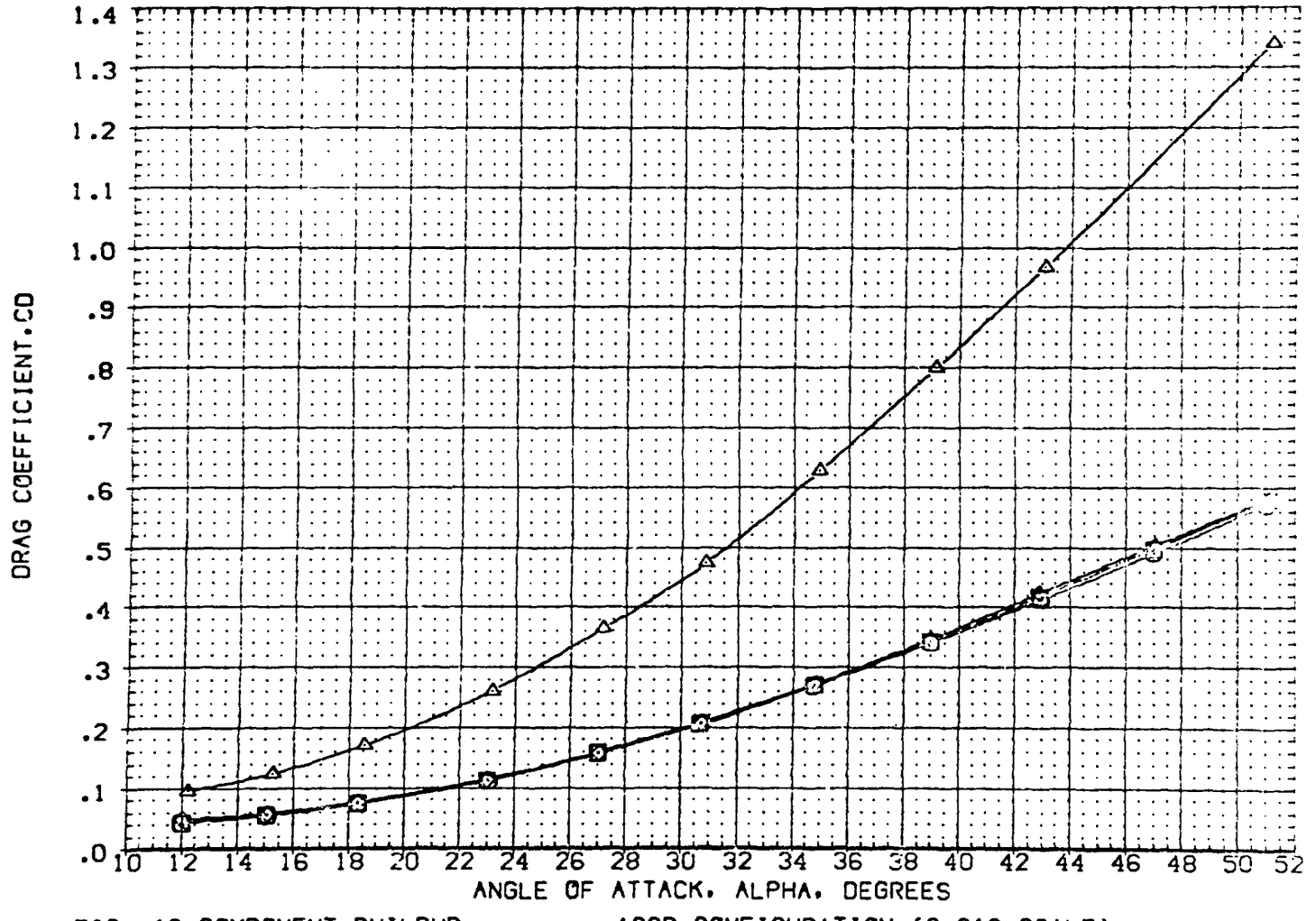


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(CB6031)	○	AMES3.5-168 0A23 B19 C7				
(CB6030)	□	AMES3.5-168 0A23 B1S C7 F5		-14.250		
(CB6029)	◇	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(2B6012)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2090.0000	SQ.FT.
LREF	474.[illegible]	IN.
BREF	903.[illegible]	IN.
XMRP	1[illegible]	IN.
YMRP	.0[illegible]	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SQ/LF

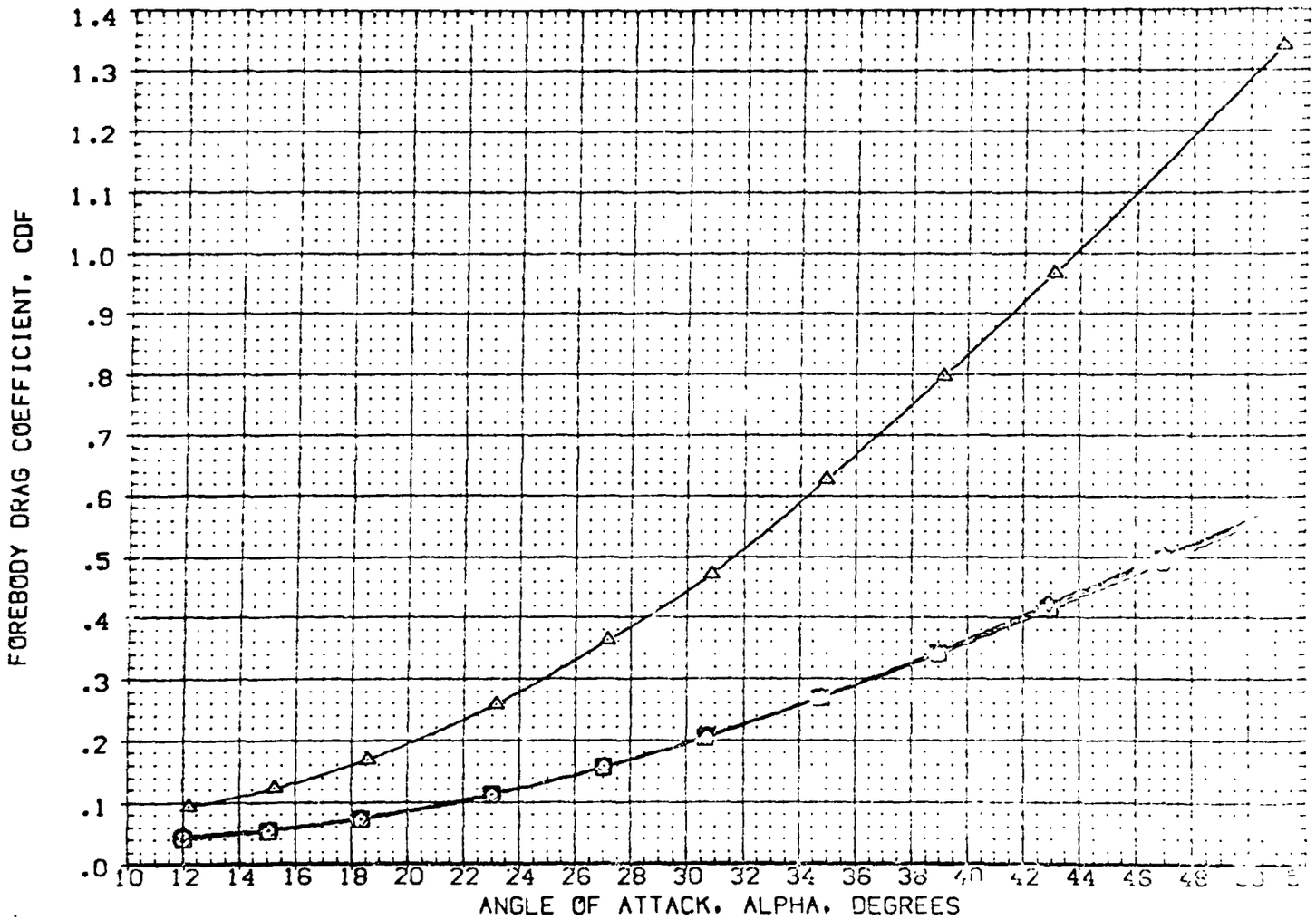


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6031)	○	AMES3.5-168 0A23 B19 C7				
(CB6030)	□	AMES3.5-168 0A23 B19 C7 F5		-14.250		
(CBG029)	◇	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(2BG012)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2000.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.0000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

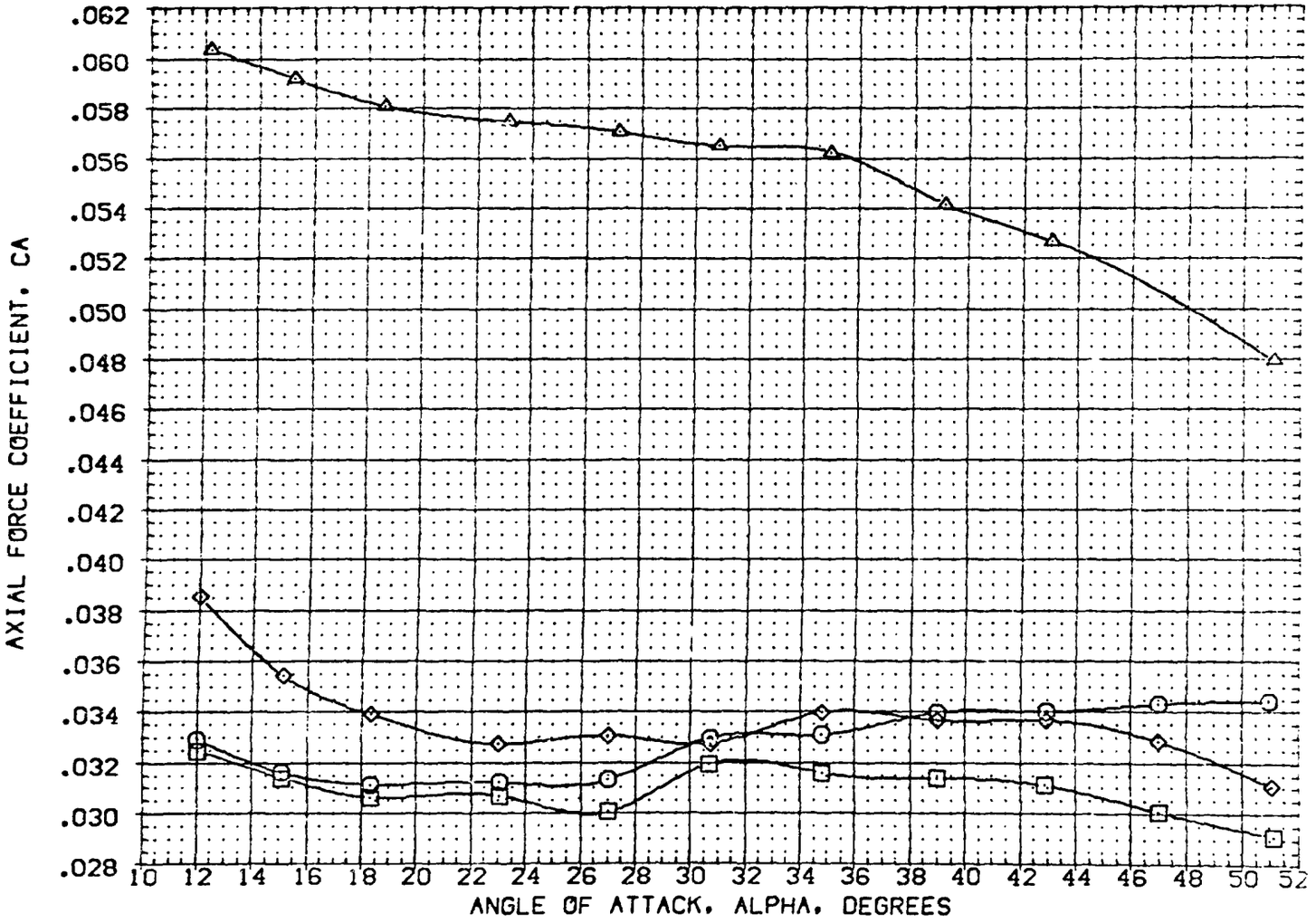


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6031)	○	AMES3.5-168 0A23 B19 C7				
(CB6030)	□	AMES3.5-168 0A23 B19 C7 F5		-14.250		
(CB6029)	◇	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(2B6012)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	986.0000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

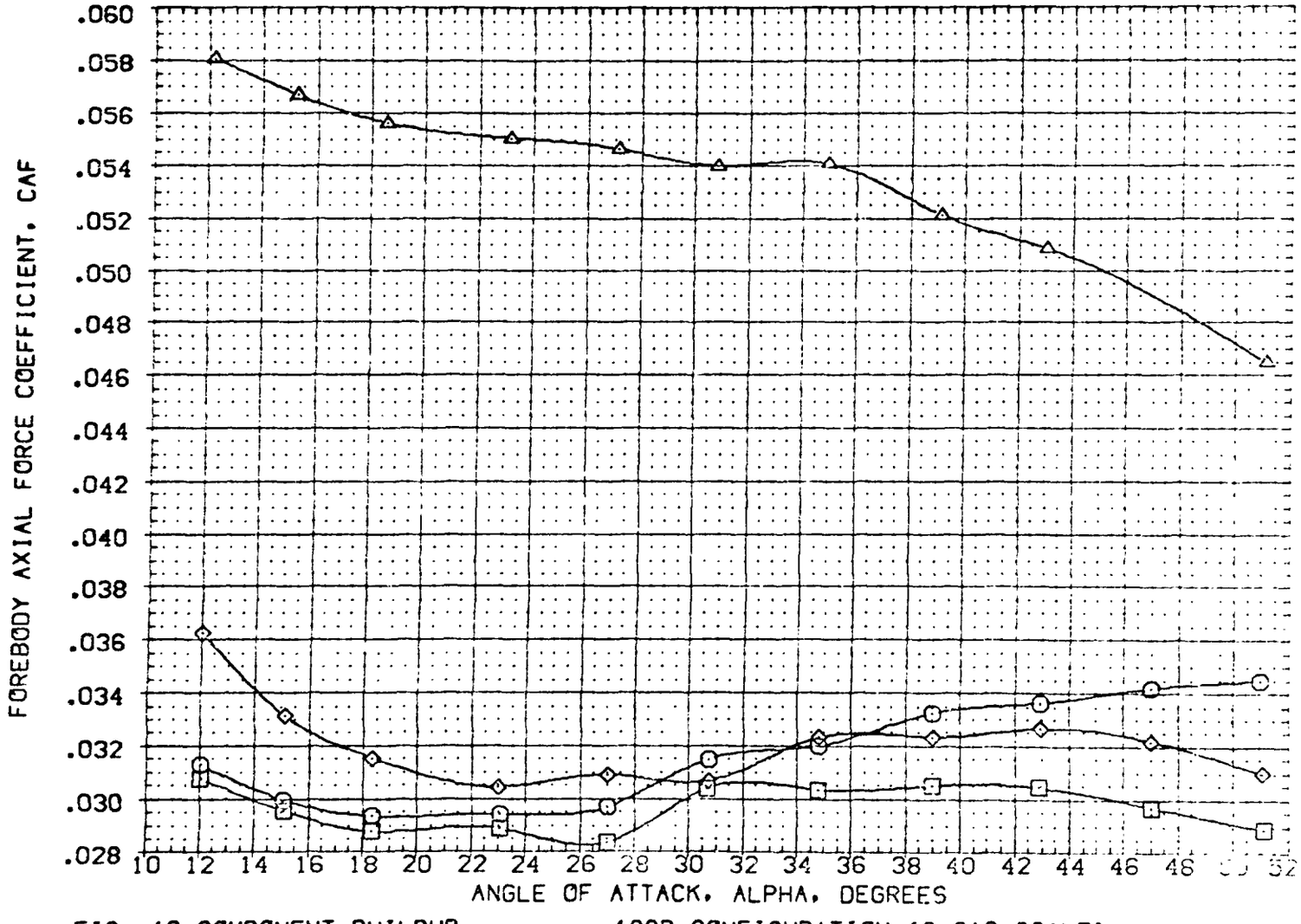


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(CB6031)	○	AMES3.5-168 0A23 B19 C7				
(CB6030)	□	AMES3.5-168 0A23 B19 C7 F5		-14.250		
(CB6029)	◇	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(2B6012)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2000.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

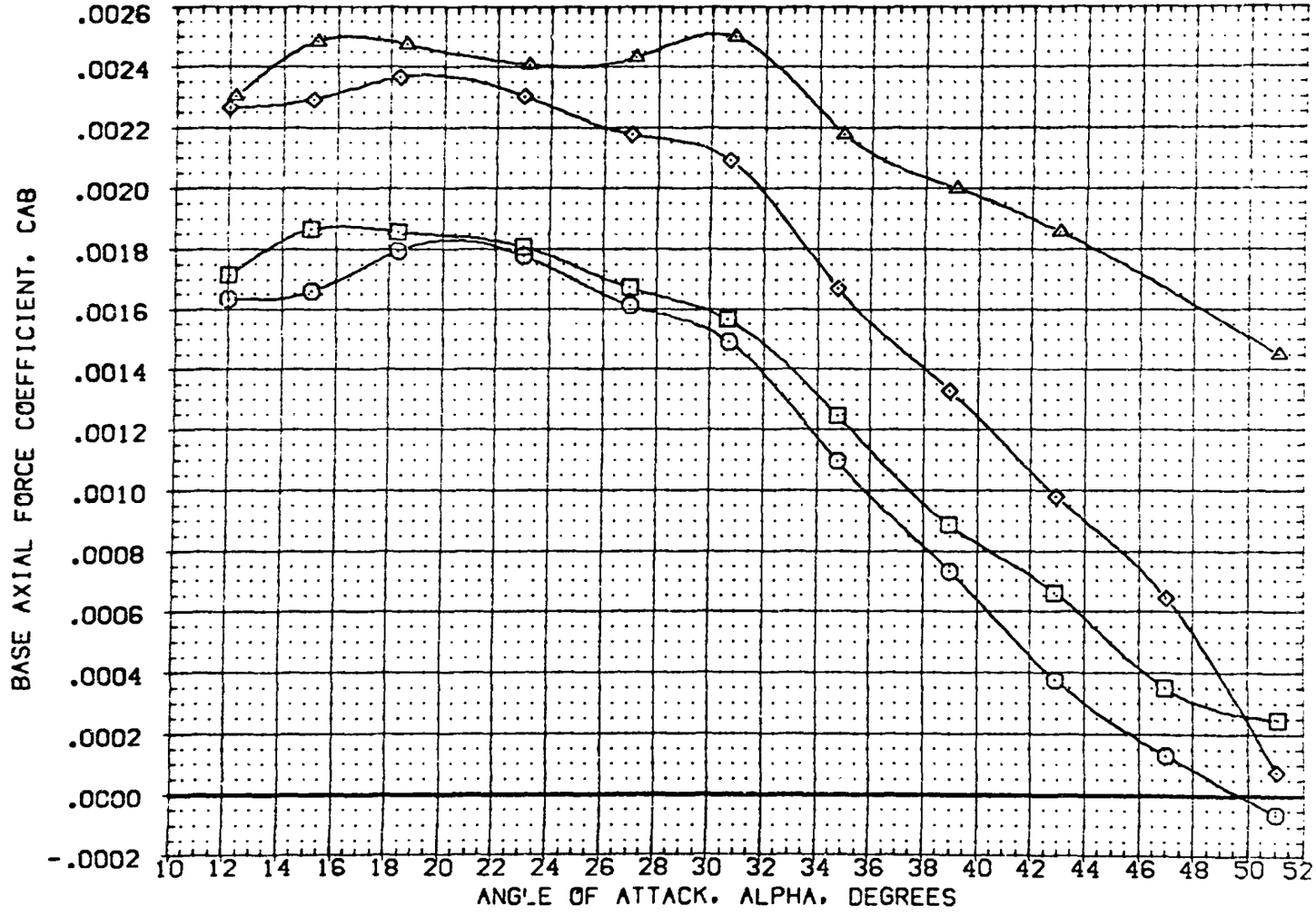


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(CB6031)	○	AMES3.5-168 0A23 B19 C7				
(CB6030)	□	AMES3.5-168 0A23 B19 C7 F5		-14.250		
(CB6029)	⊠	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(286012)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M1 N8 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	906.0000	IN.
XMRP	1070.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

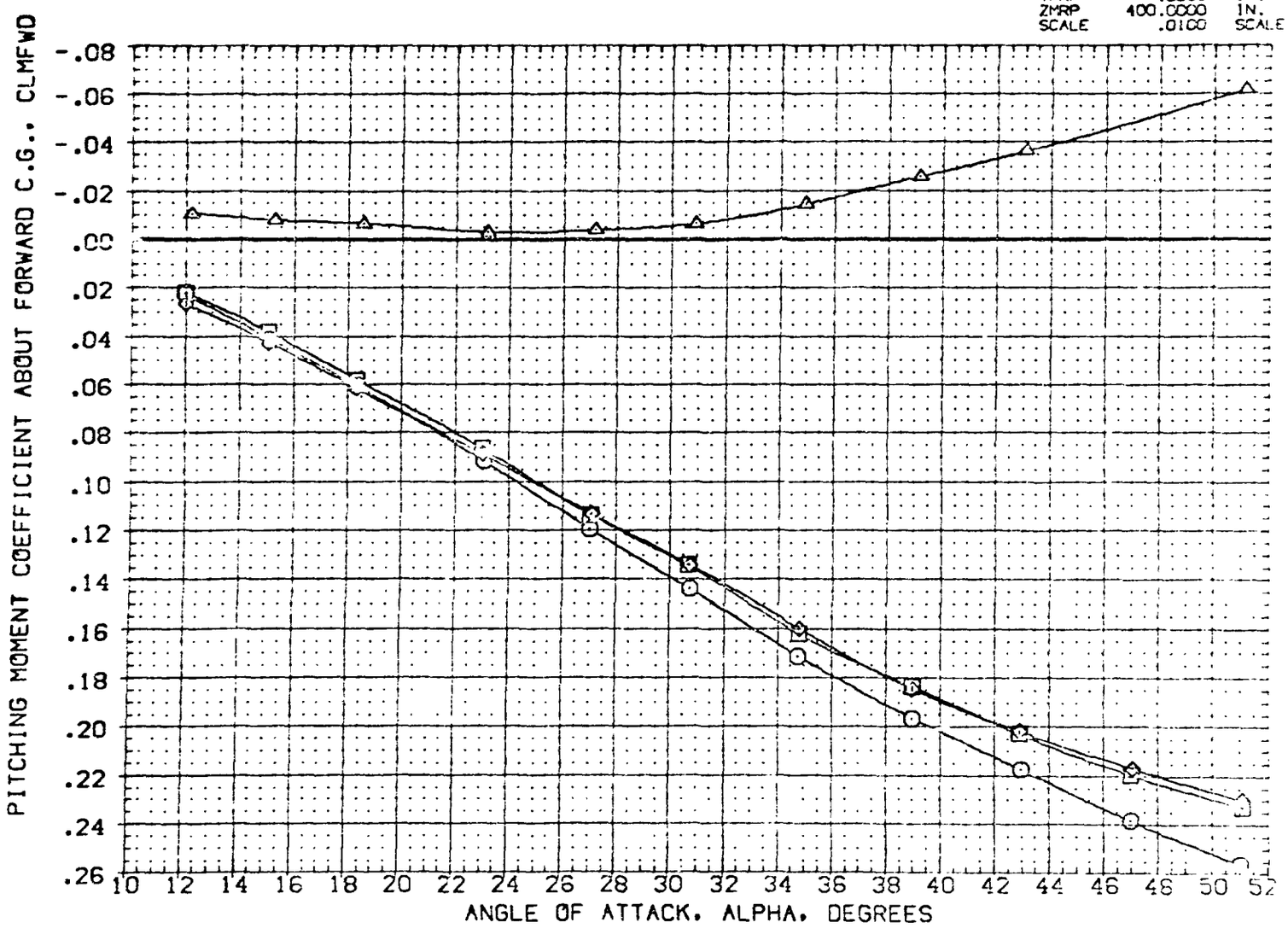


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER
(CB6031)	○	AMES3.5-168 0A23 B19 C7				
(CB6030)	□	AMES3.5-168 0A23 B19 C7 F5		-14.250		
(CB6029)	◇	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(286012)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.0000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

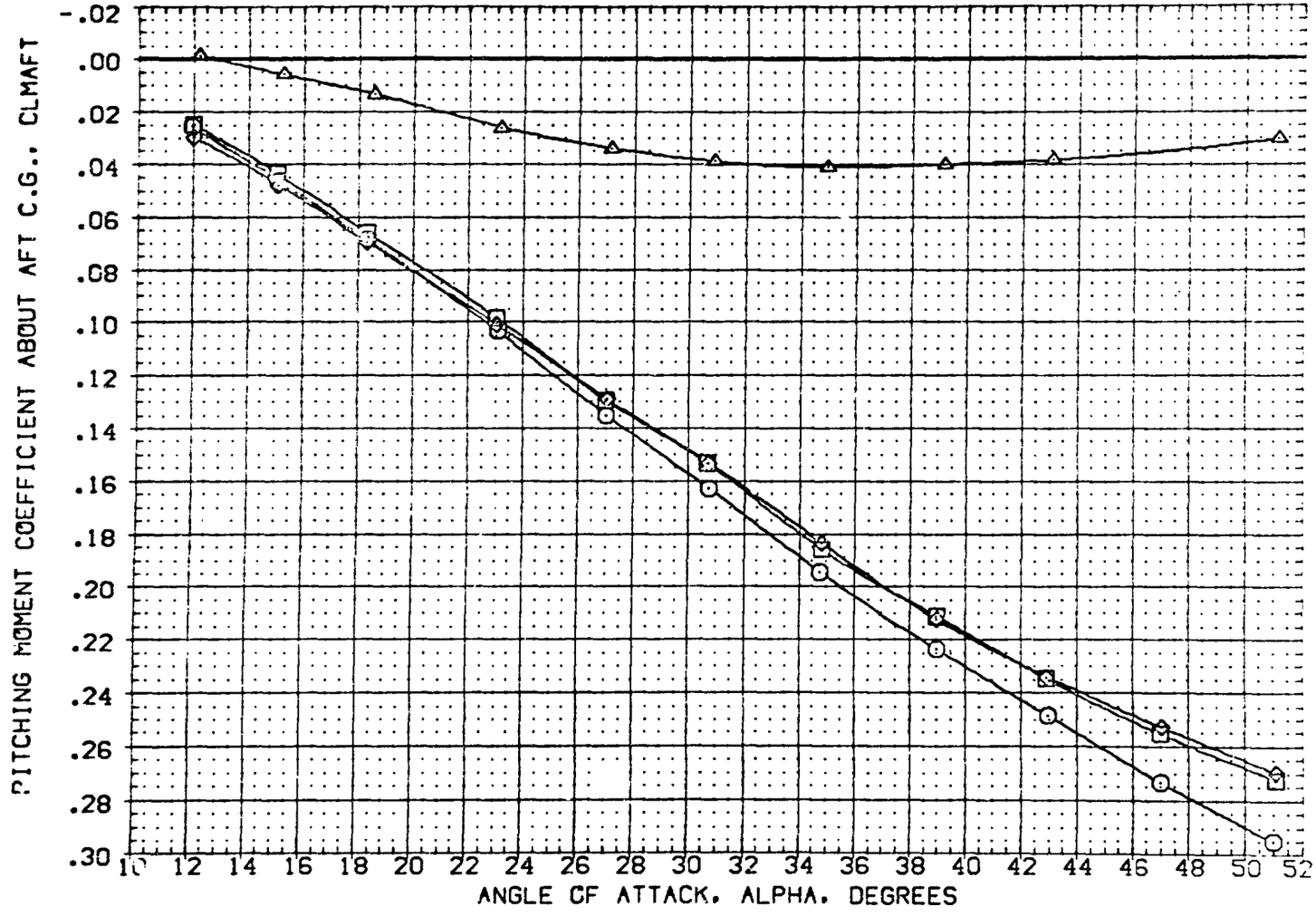


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(CB6031)	○	AMES3.5-168 0A23 B19 C7				
(C36030)	□	AMES3.5-168 0A23 B19 C7 F5		-14.250		
(CB6029)	◇	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(2B6012)	△	AMES3.5-163 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

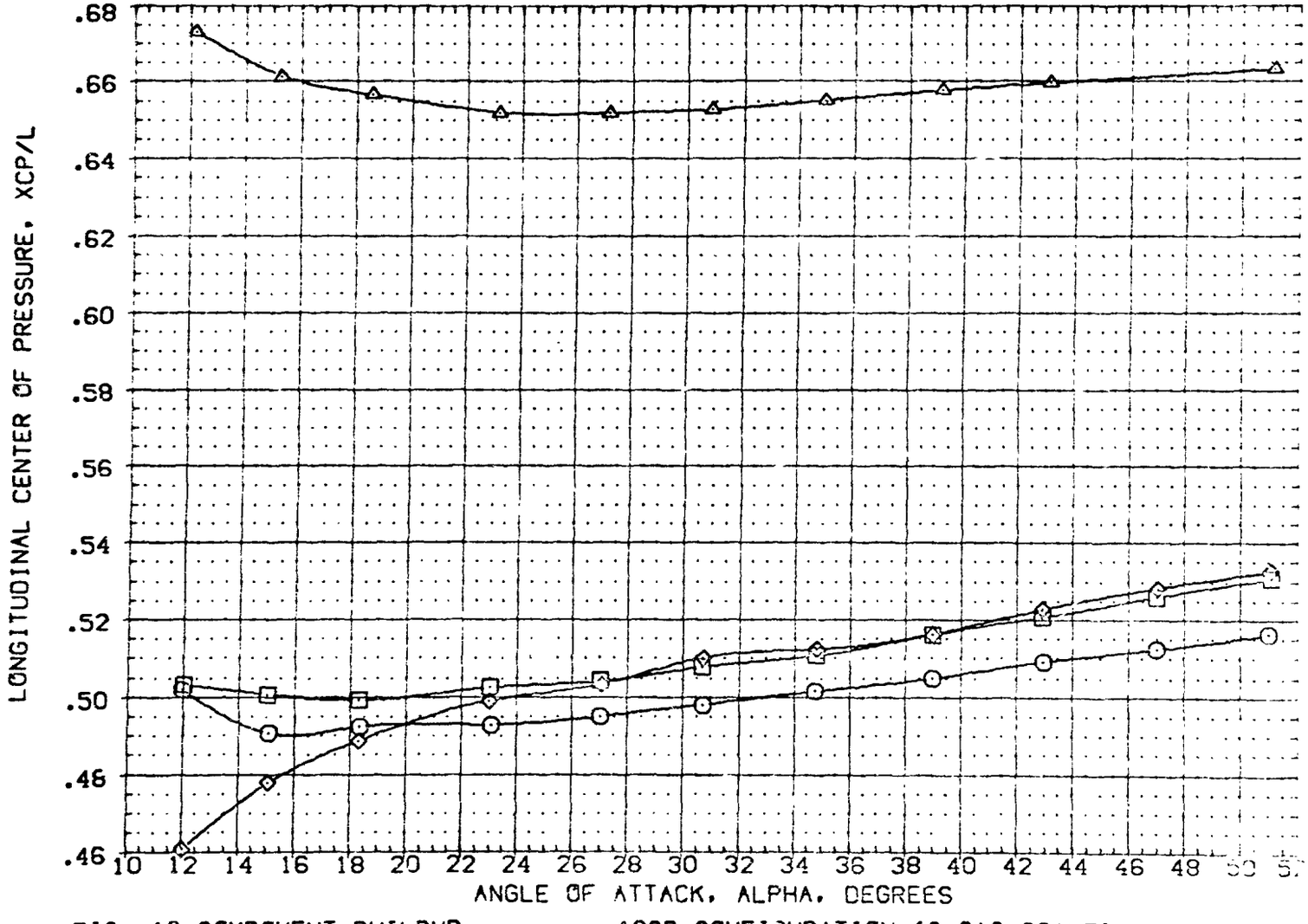


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(886031)	○	AMES3.5-168 0A23 B19 C7				
(836030)	□	AMES3.5-168 0A23 B19 C7 F5		-14.250		
(836029)	◇	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M		-14.250	55.000	.000
(386012)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 J8 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ FT.
LREF	474.0000	IN.
BREF	936.6000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

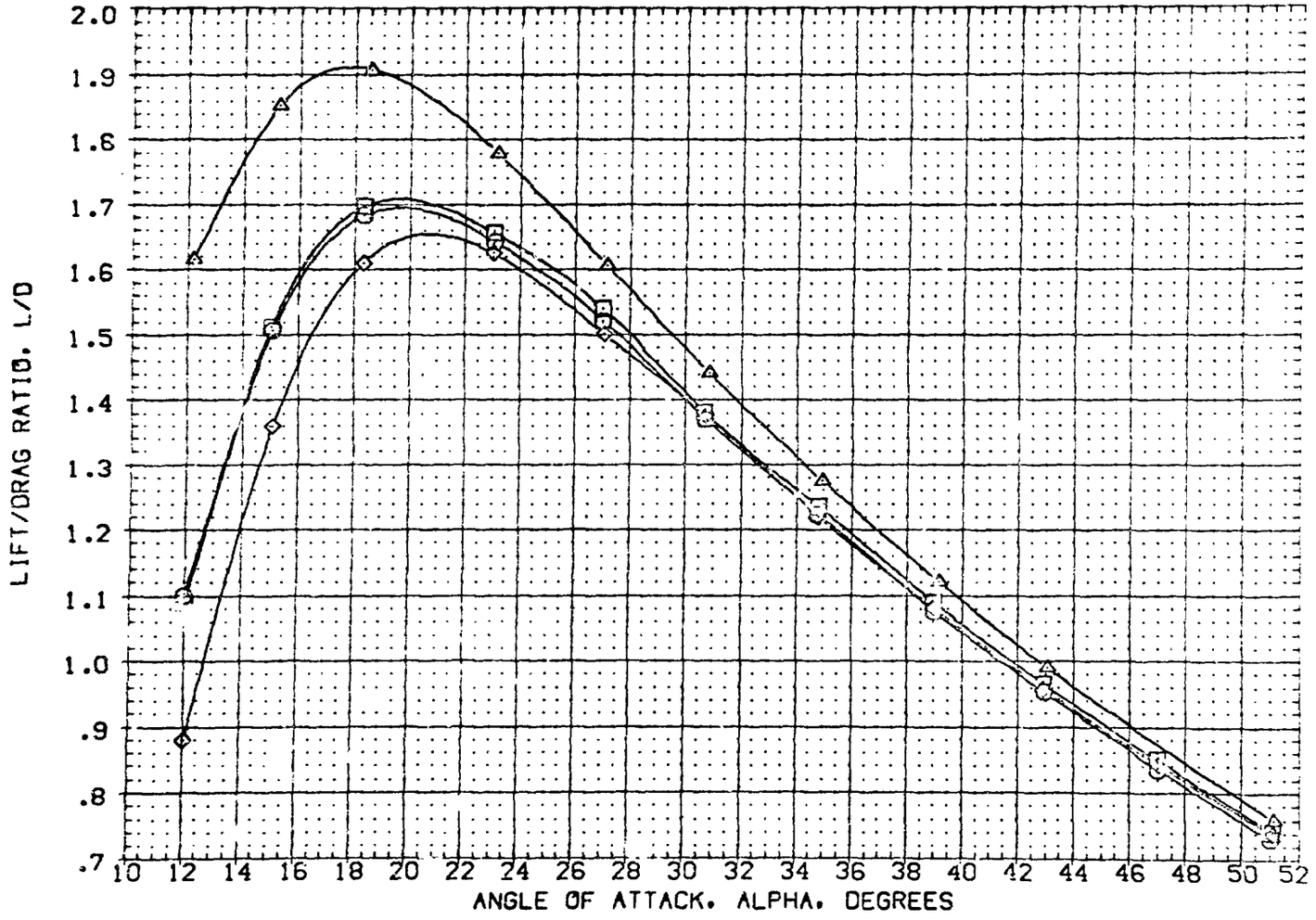


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(CB6031)	○	AMES3.5-168 0A23 B15 C7				
(CB6030)	□	AMES3.5-168 0A23 B19 C7 F5		-14.250		
(CB6029)	◇	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(2B6012)	△	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.6000	IN.
BRFF	936.6000	IN.
XMRP	1078.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

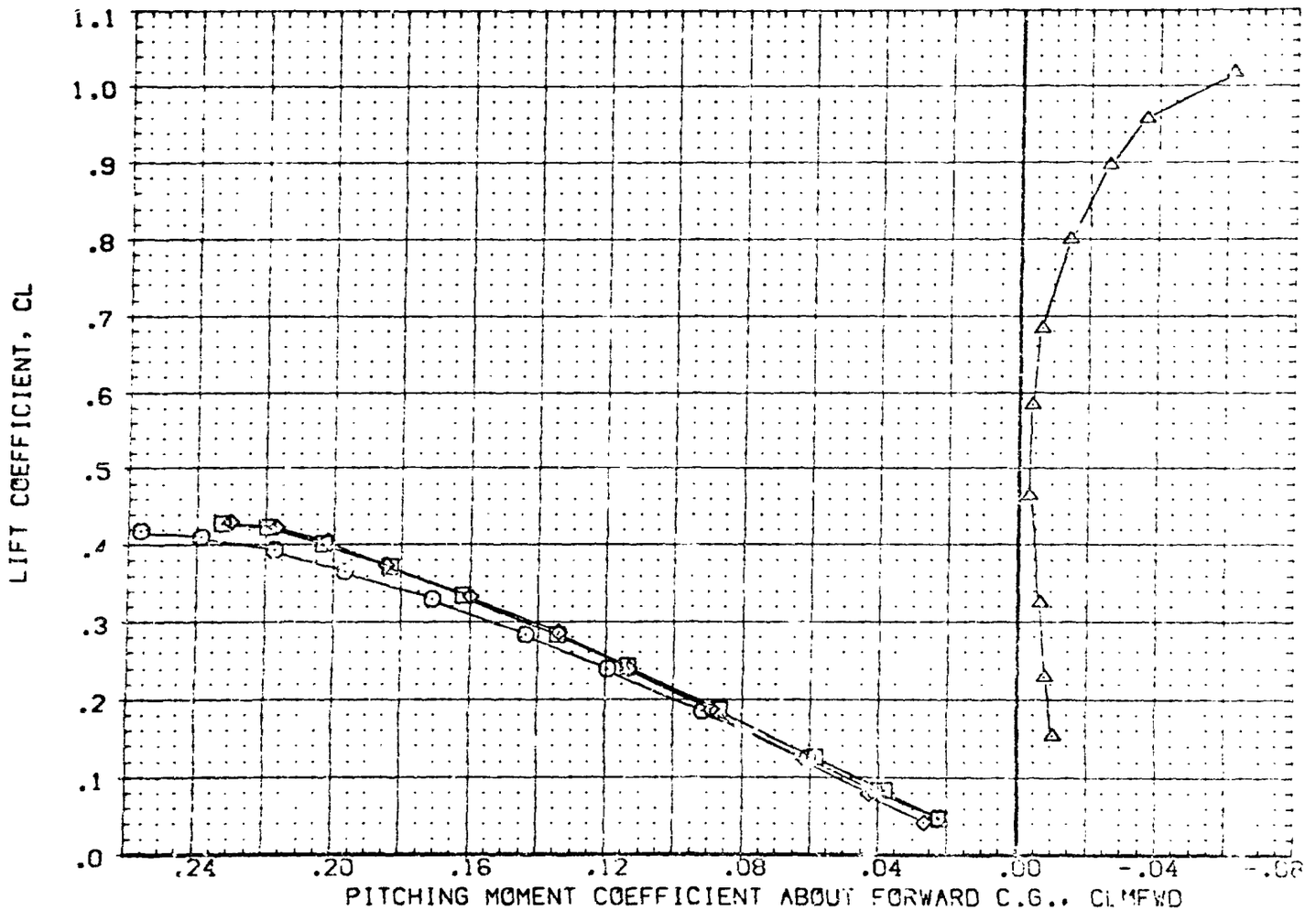


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(C86031)	□	AMES3.5-168 OA23 B19 C7				
(C86030)	□	AMES3.5-168 OA23 B19 C7 F5		-14.250		
(C86029)	◇	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(C86012)	△	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.0200	IN.
XMRP	1076.4900	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

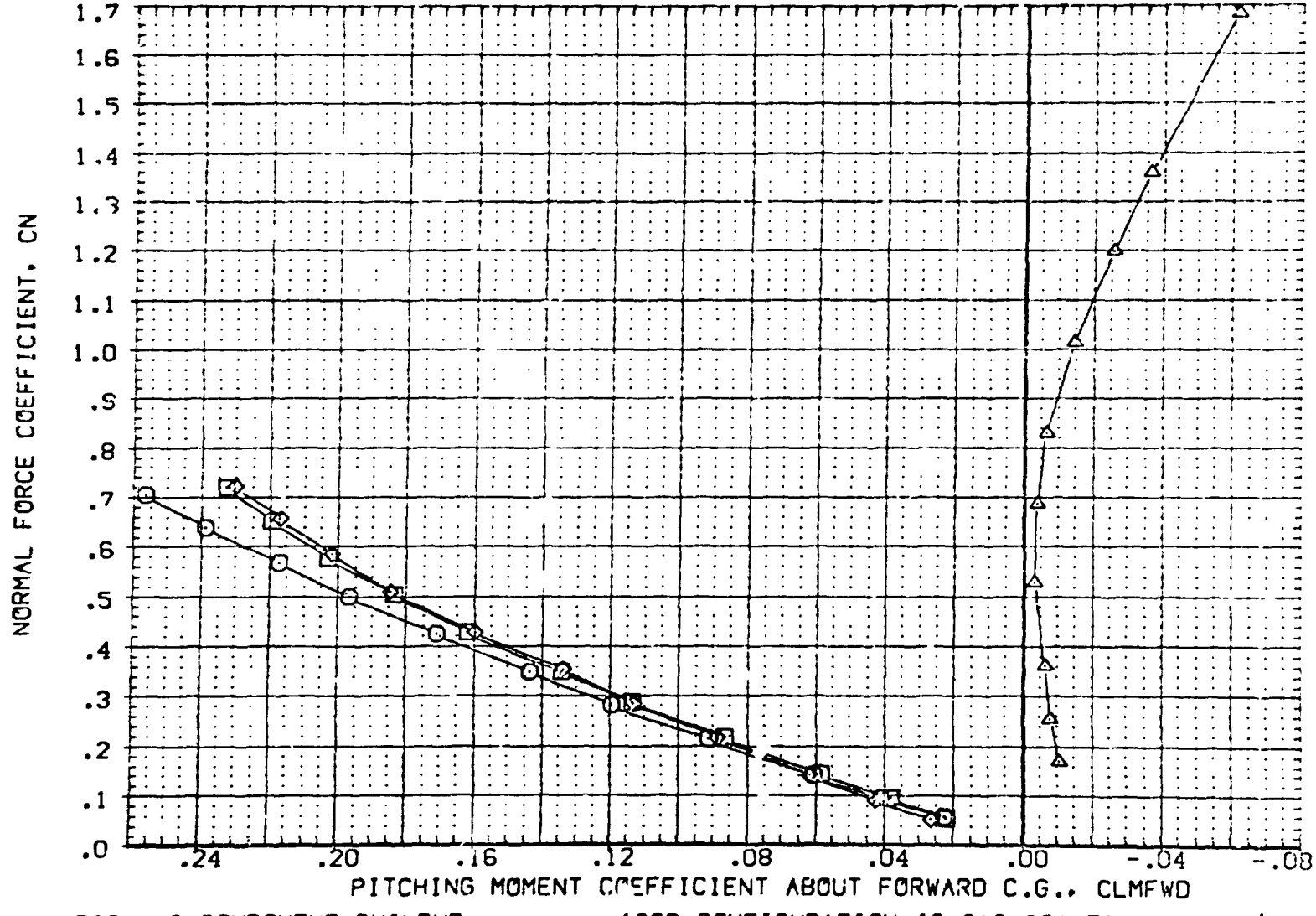


FIG. 10 COMPONENT BUILDUP 1398 CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER
(CB6031)	○	AMES3.5-168 0A23 B19 C7				
(CB6030)	□	AMES3.5-168 0A23 B19 C7 F5		-14.250		
(CBC029)	◇	AMES3.5-168 0A23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000
(2B6012)	△	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.6000	IN.
BRLF	933.6000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

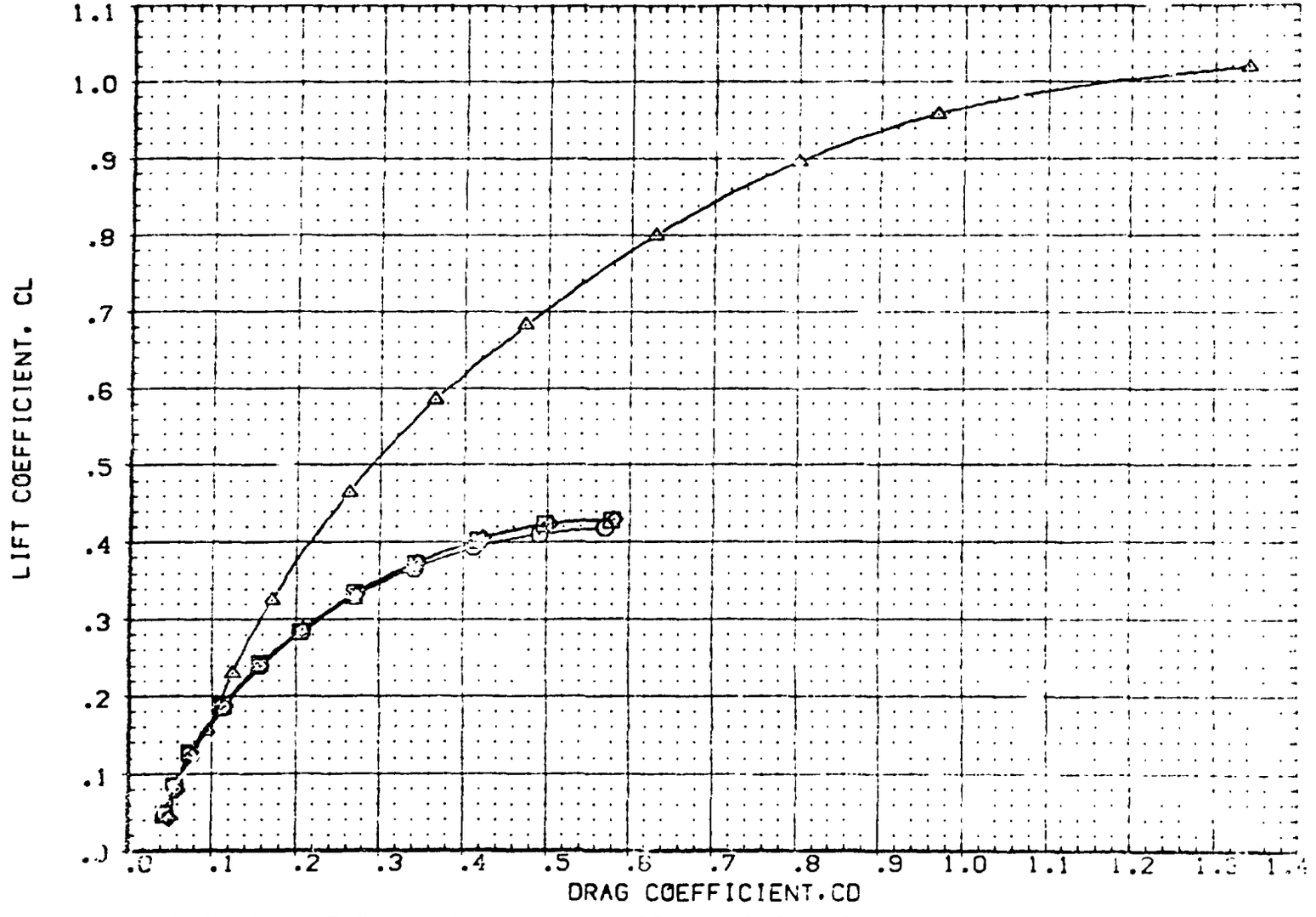


FIG. 19 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	ELEVON	SPOBRK	BOFLAP
(886022)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	.000	55.000	-14.250
(886023)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-10.000	55.000	-14.250
(886024)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-20.000	55.000	-14.250

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	935.0000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

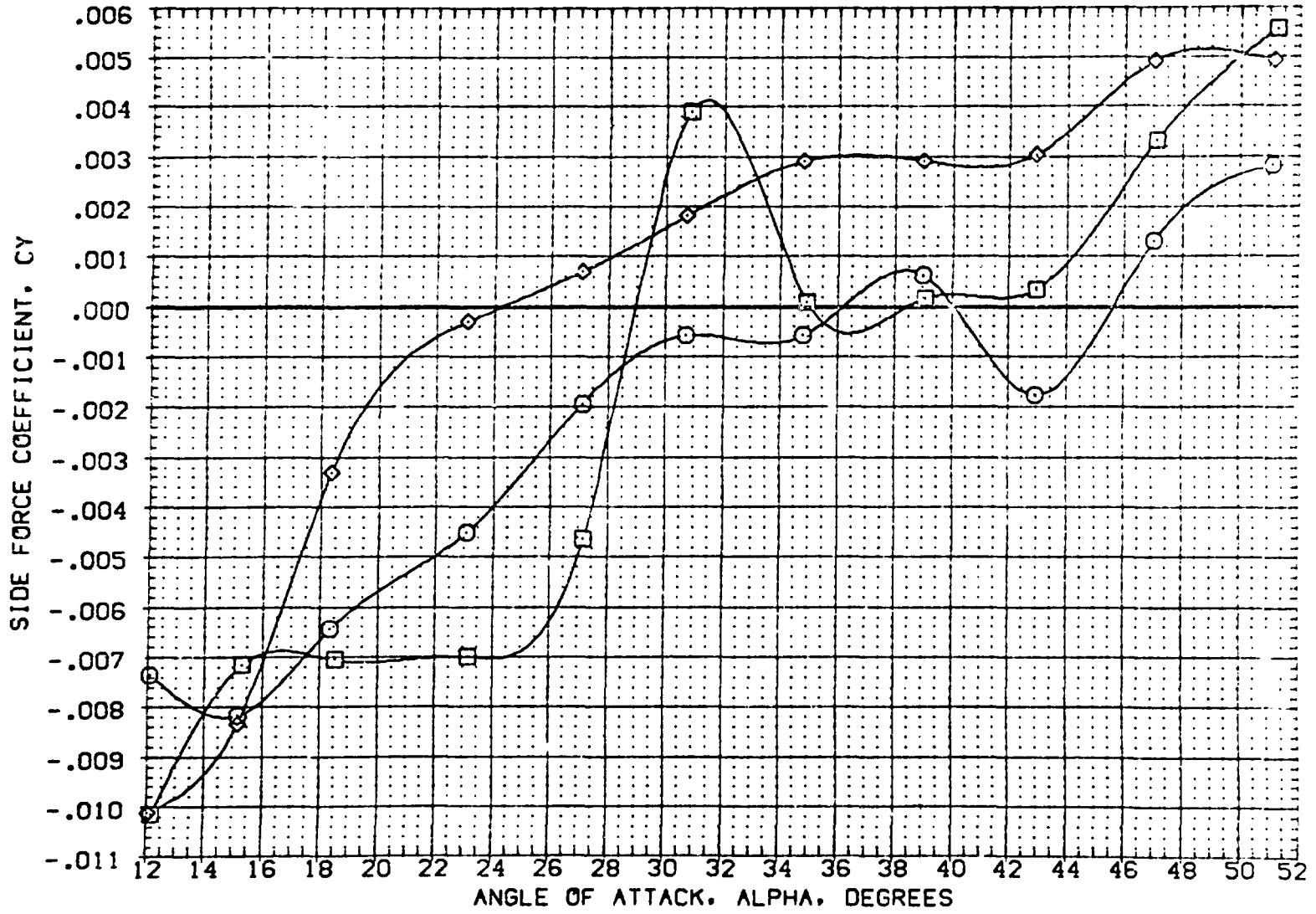


FIG. 11 AILERON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	ELEVON	SPOIL	BDFLAP
(806022)	□	AMES3.5-108 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	.000	55.000	14.250
(806023)	○	AMES3.5-108 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-10.000	55.000	14.250
(806024)	◇	AMES3.5-108 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-20.000	55.000	14.250

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.0000	IN.
BREF	900.0000	IN.
XMRP	1078.0000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

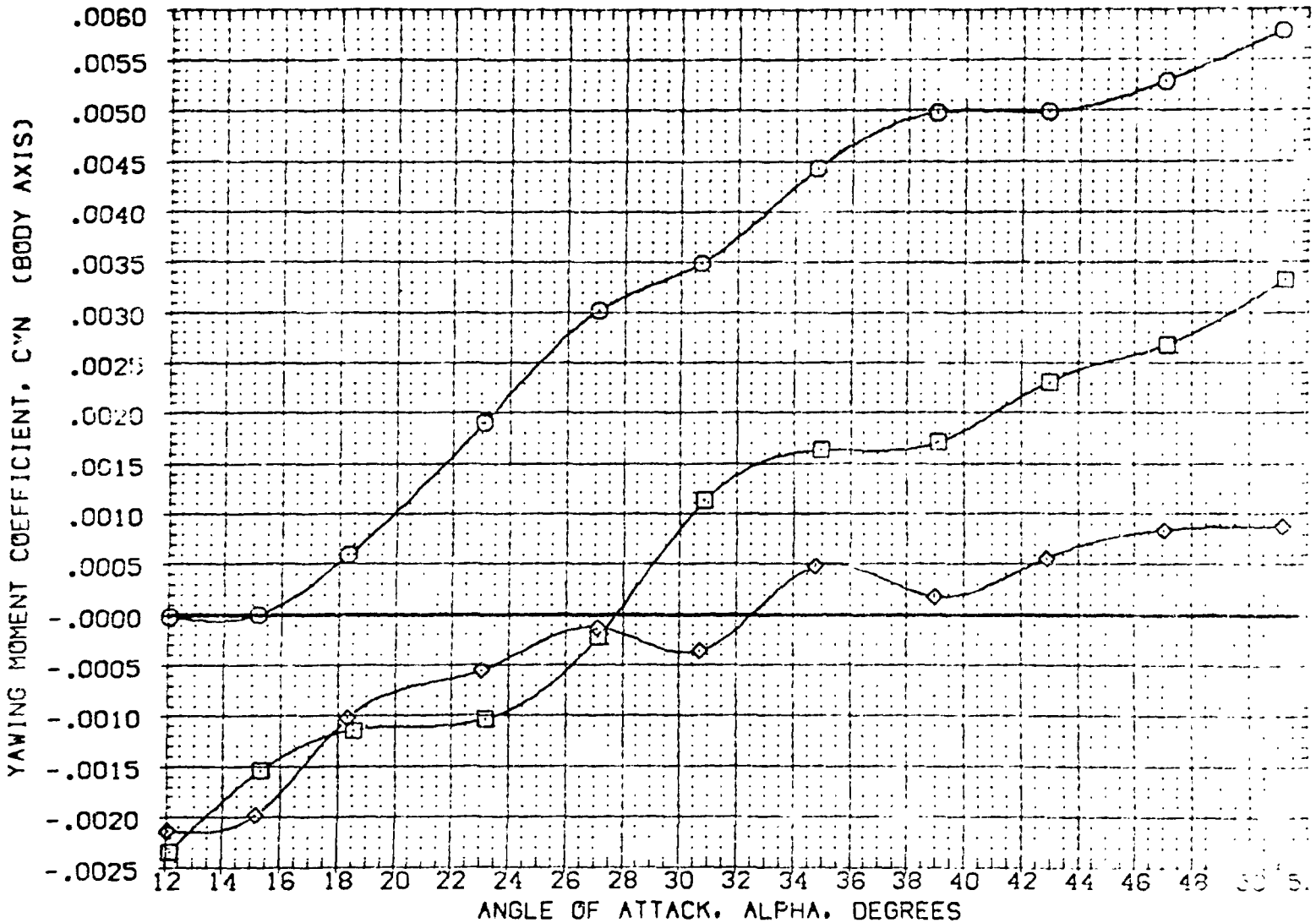


FIG. 11 AILERON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

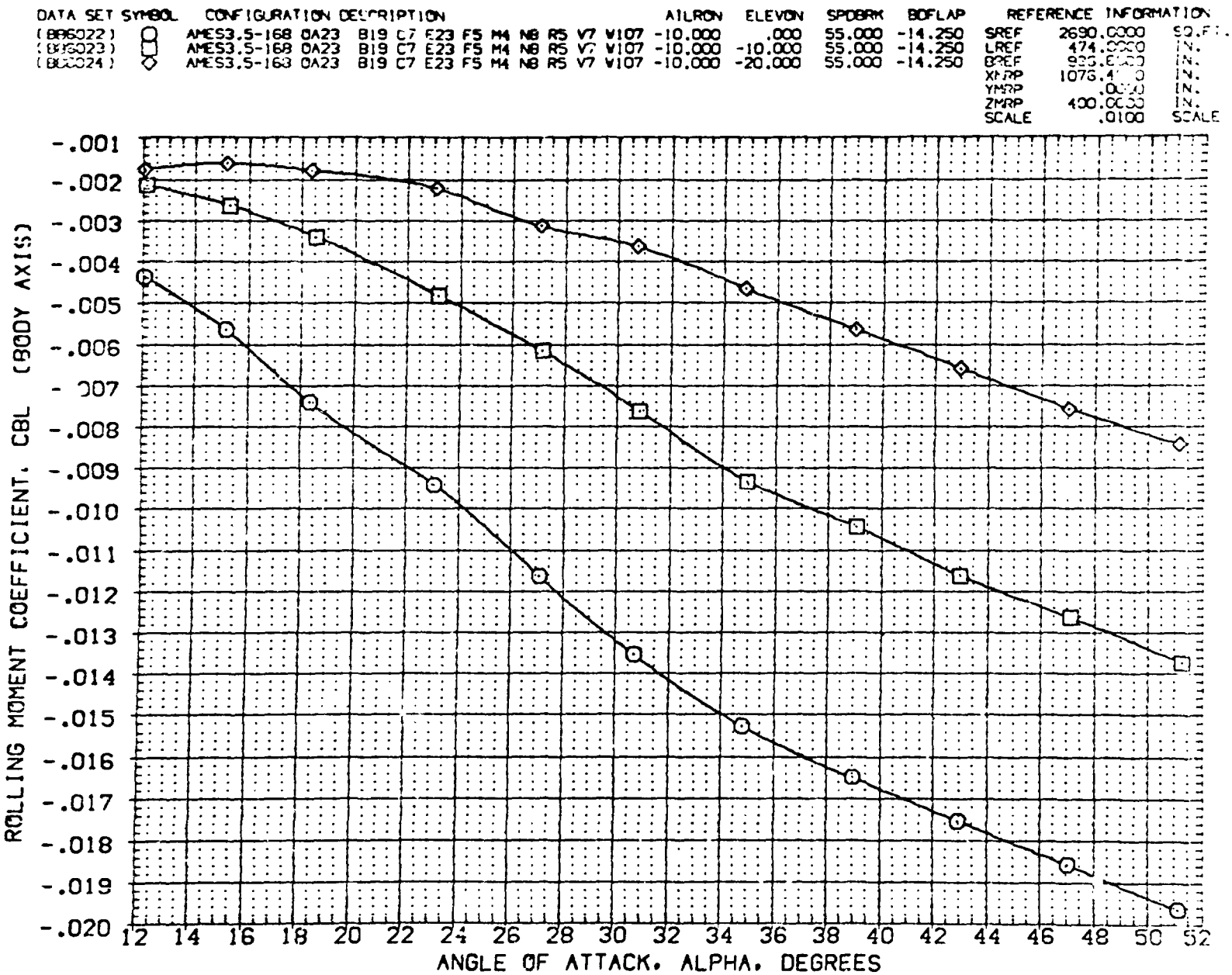


FIG. 11 AILERON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	ELEVON	SPOIRK	BOFLAP
(386012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	-14.250
(886021)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-10.000	55.000	-14.250
(386020)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-20.000	55.000	-14.250

REFERENCE INFORMATION		
SREF	2690.0000	SQ.
LREF	474.0000	IN.
BREF	903.0000	IN.
XMRP	1075.0000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

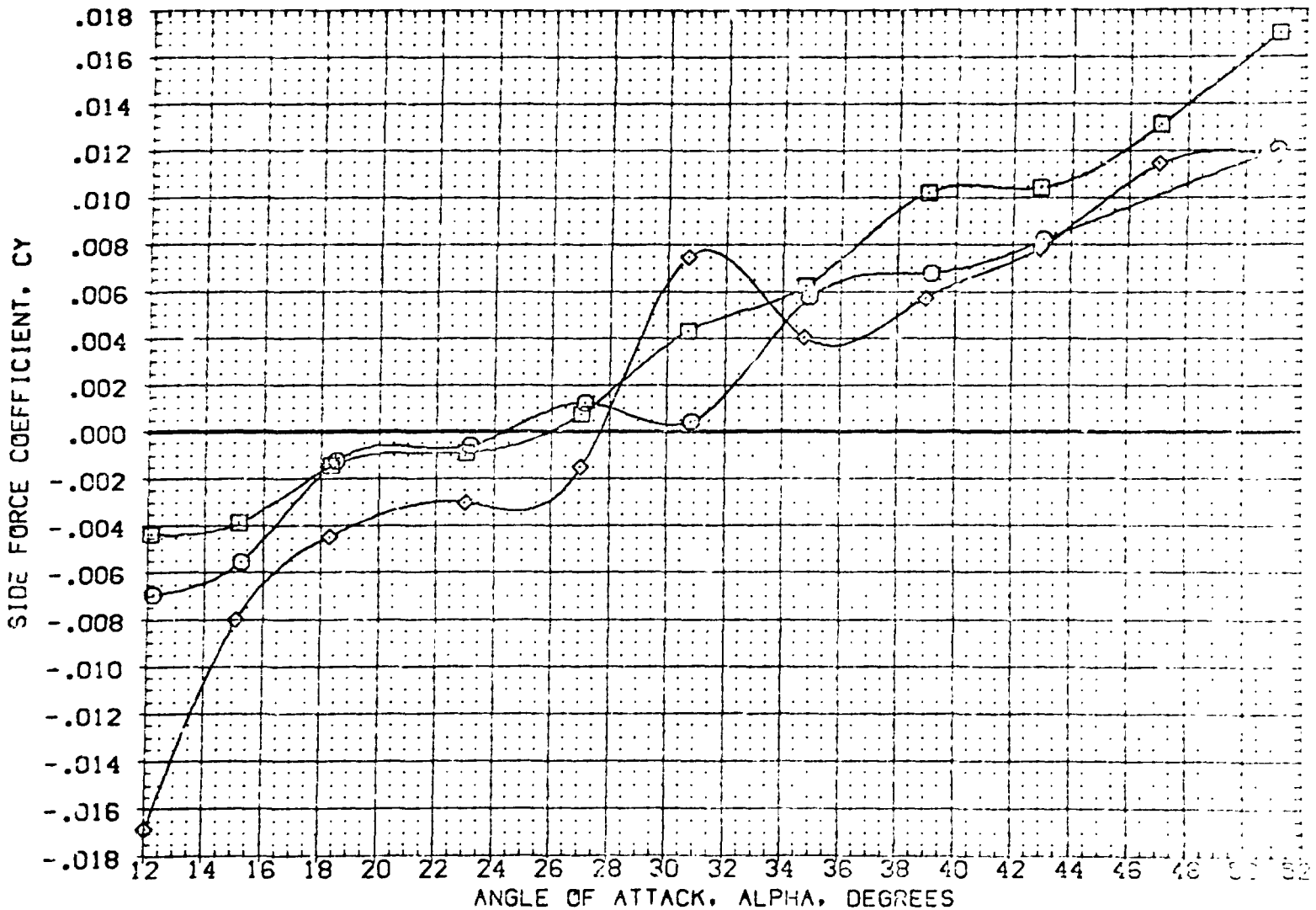


FIG. 11 AILERON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	ELEVON	SPOBRK	BOFLAP
(3[illegible]12)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	-14.250
(3[illegible]21)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N6 R5 V7 W107	.000	-10.000	55.000	-14.250
(3[illegible]20)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N3 R5 V7 W107	.000	-20.000	55.000	-14.250

REFERENCE INFORMATION		
SREF	2[illegible]50.0000	SQ.FT.
LREF	474.[illegible]	IN.
BREF	9[illegible]	IN.
XMRP	10[illegible]	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

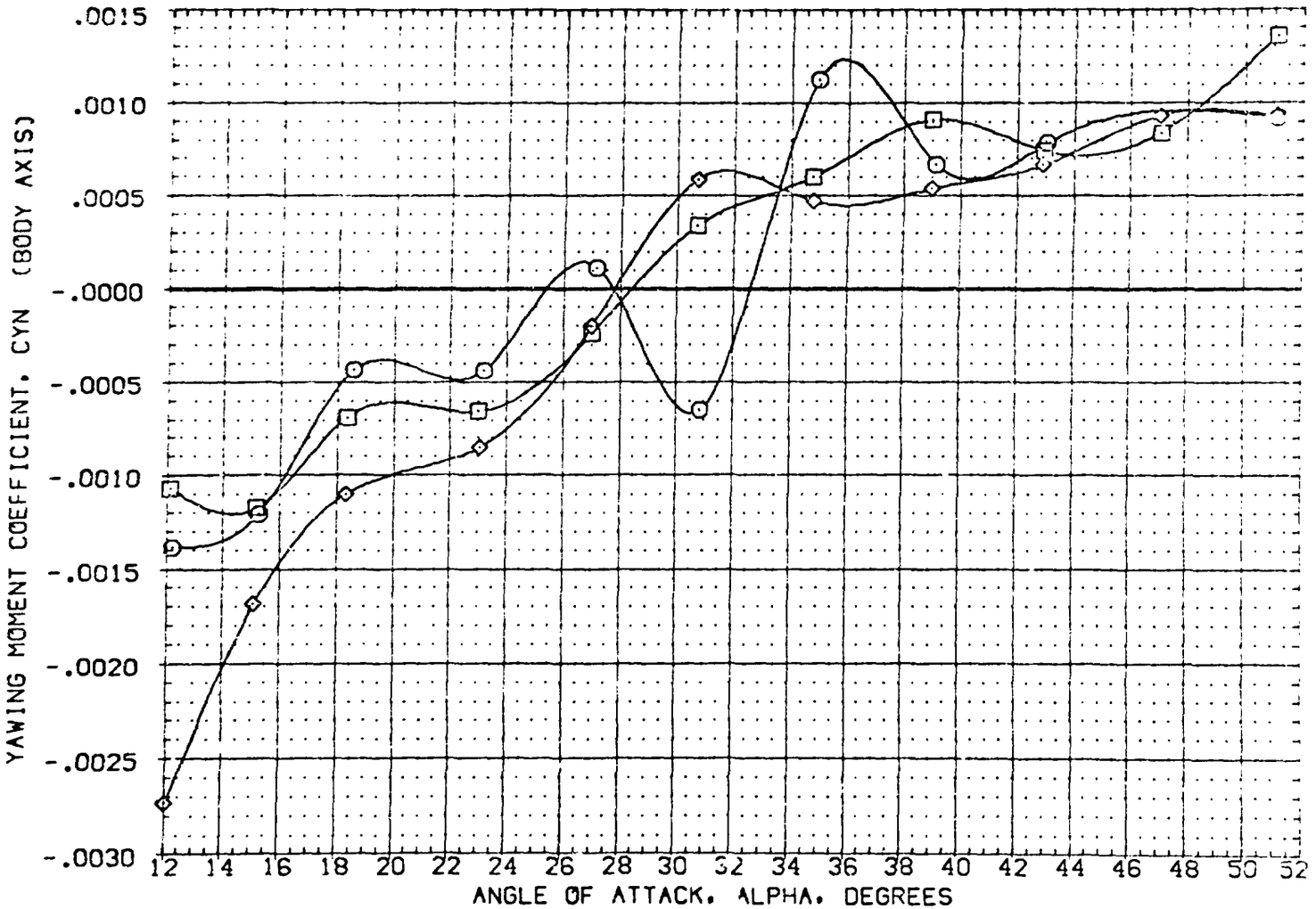


FIG. 11 AILERON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

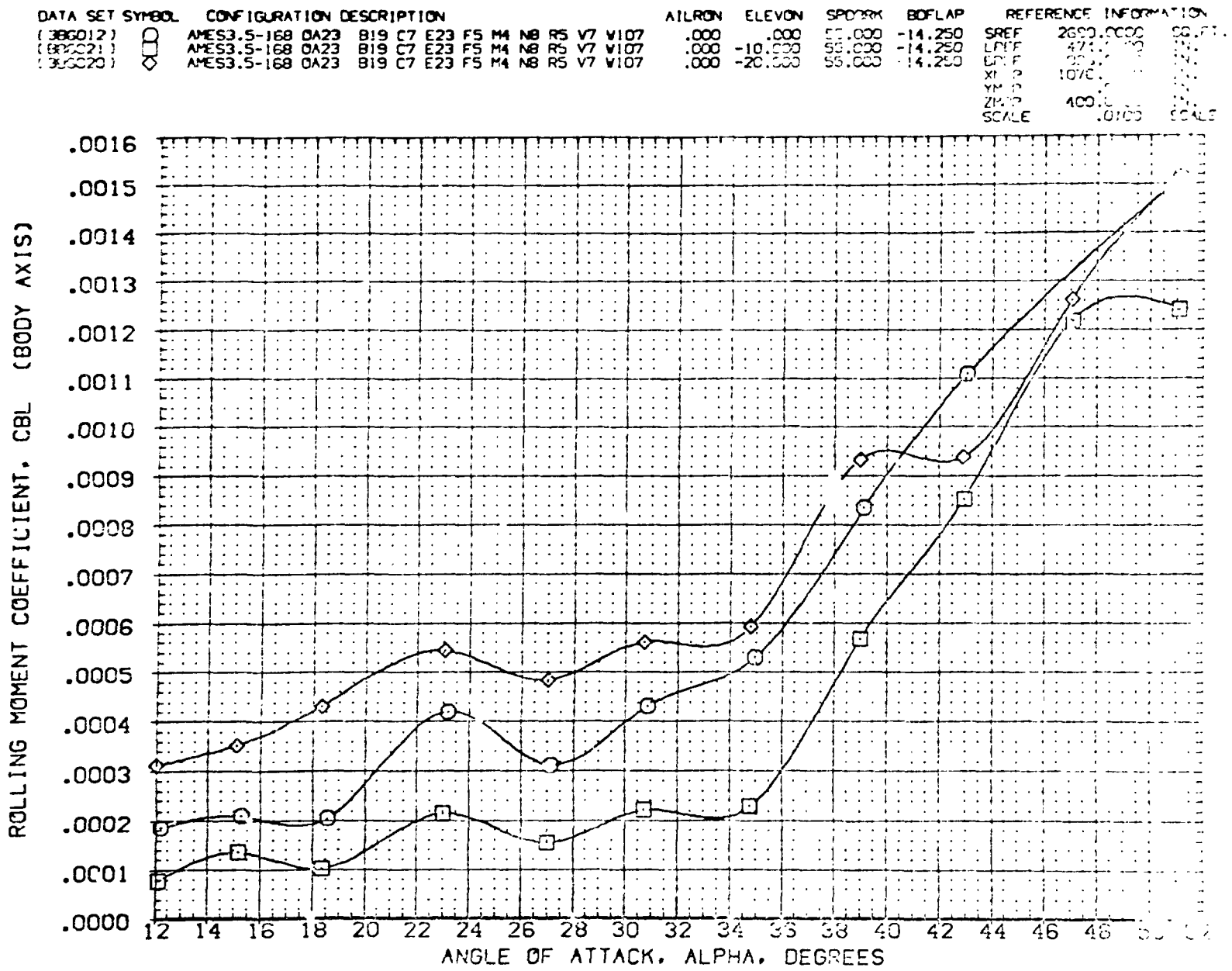


FIG. 11 AILERON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	SPDBRK	BDFLAP
(105022)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	.000	55.000	-14.250
(105023)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-10.000	55.000	-14.250
(105024)	◇	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-20.000	55.000	-14.250

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.[illegible]	[illegible]
BREF	9[illegible]	[illegible]
XMRP	10[illegible]	[illegible]
YMRP	.0[illegible]	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

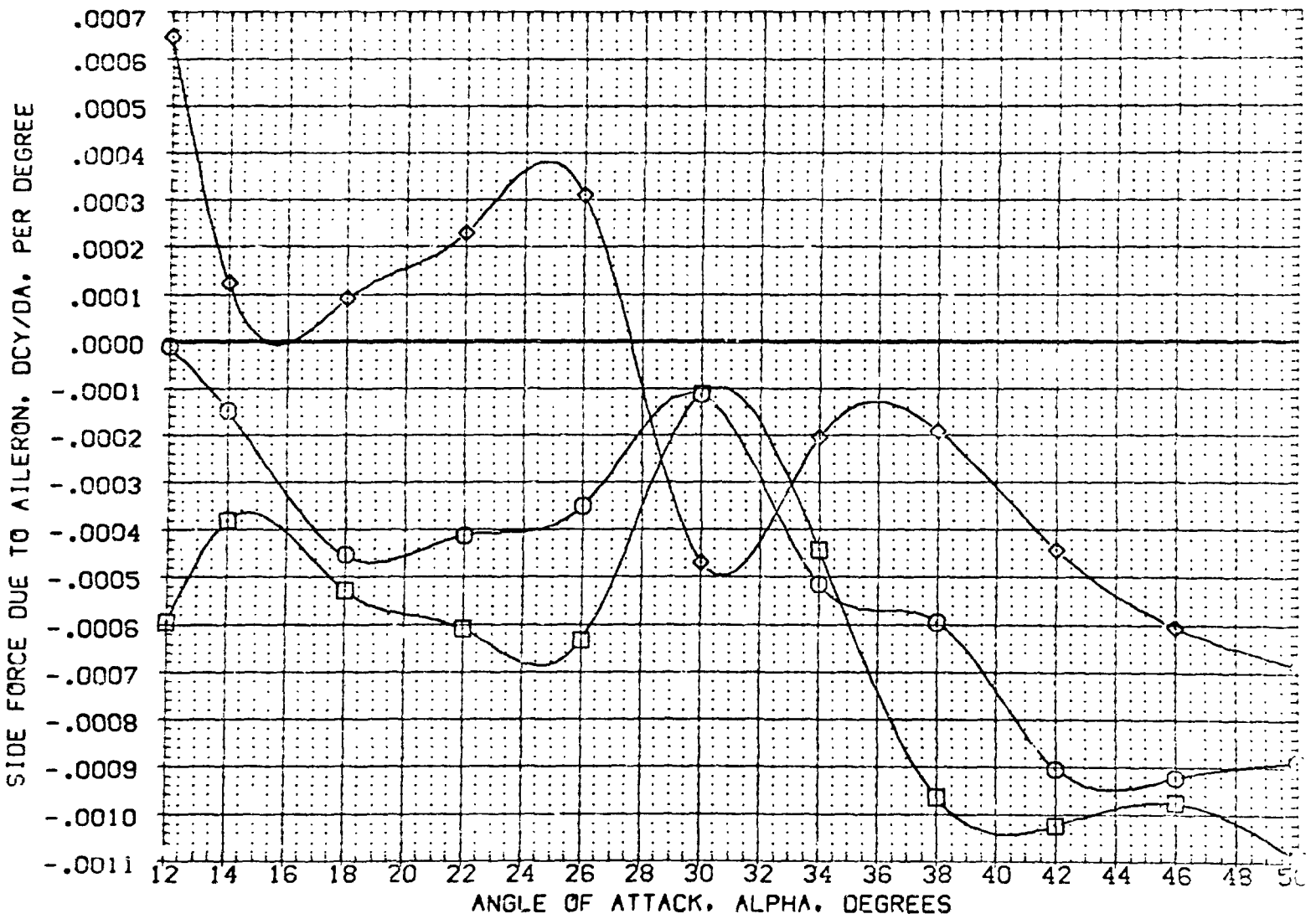


FIG. 11 AILERON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

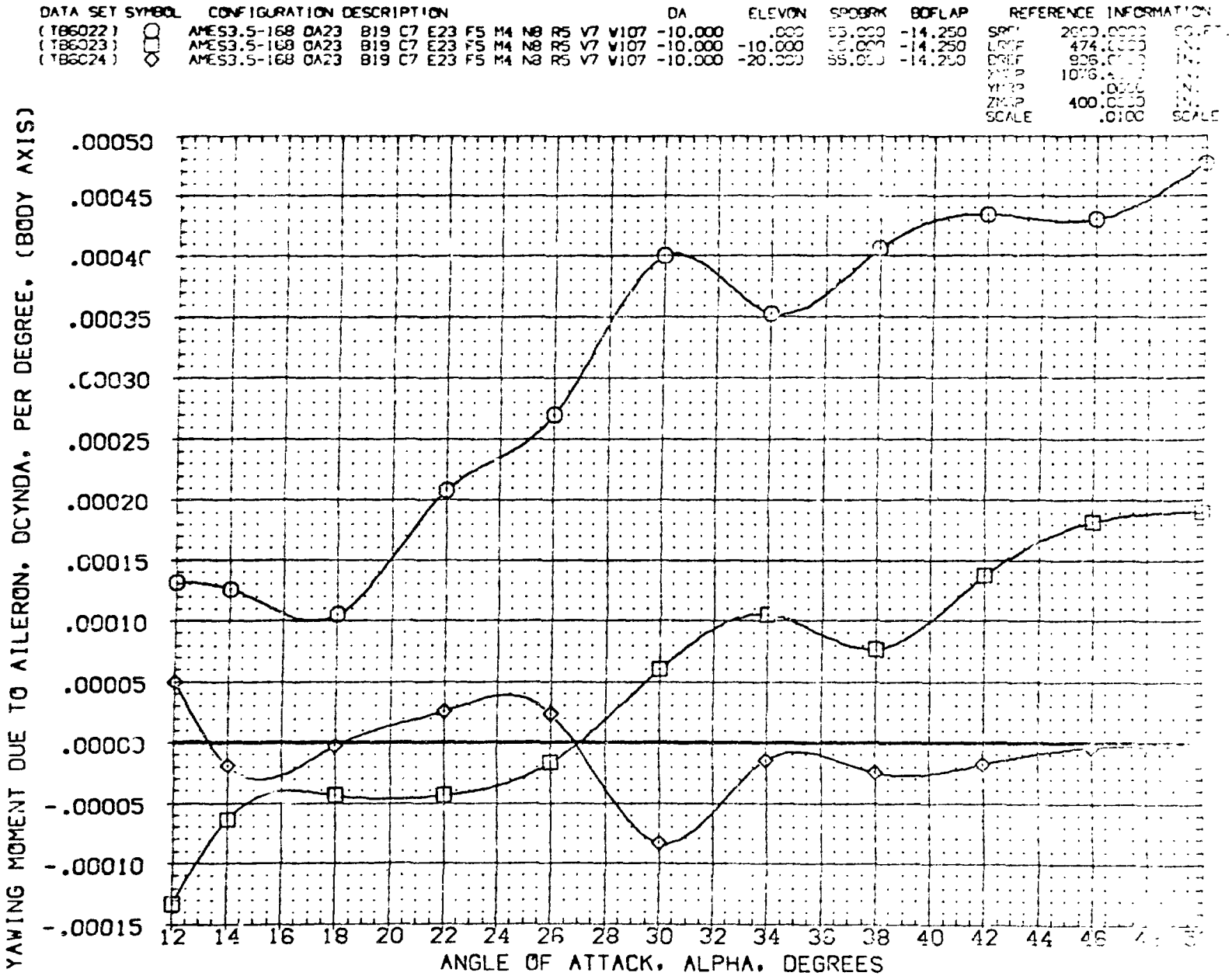


FIG. 11 AILERON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	SPOBRK	BOFLAP
(T86022)	○	AM S3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	.000	55.000	-14.250
(T86023)	□	AM S3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-10.000	55.000	-14.250
(T86024)	◇	AM S3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-20.000	55.000	-14.250

REFERENCE INFORMATION		
SREF	2800.0000	SQ. IN.
LREF	474.6000	IN.
BREF	903.0000	IN.
XMRP	1076.4700	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

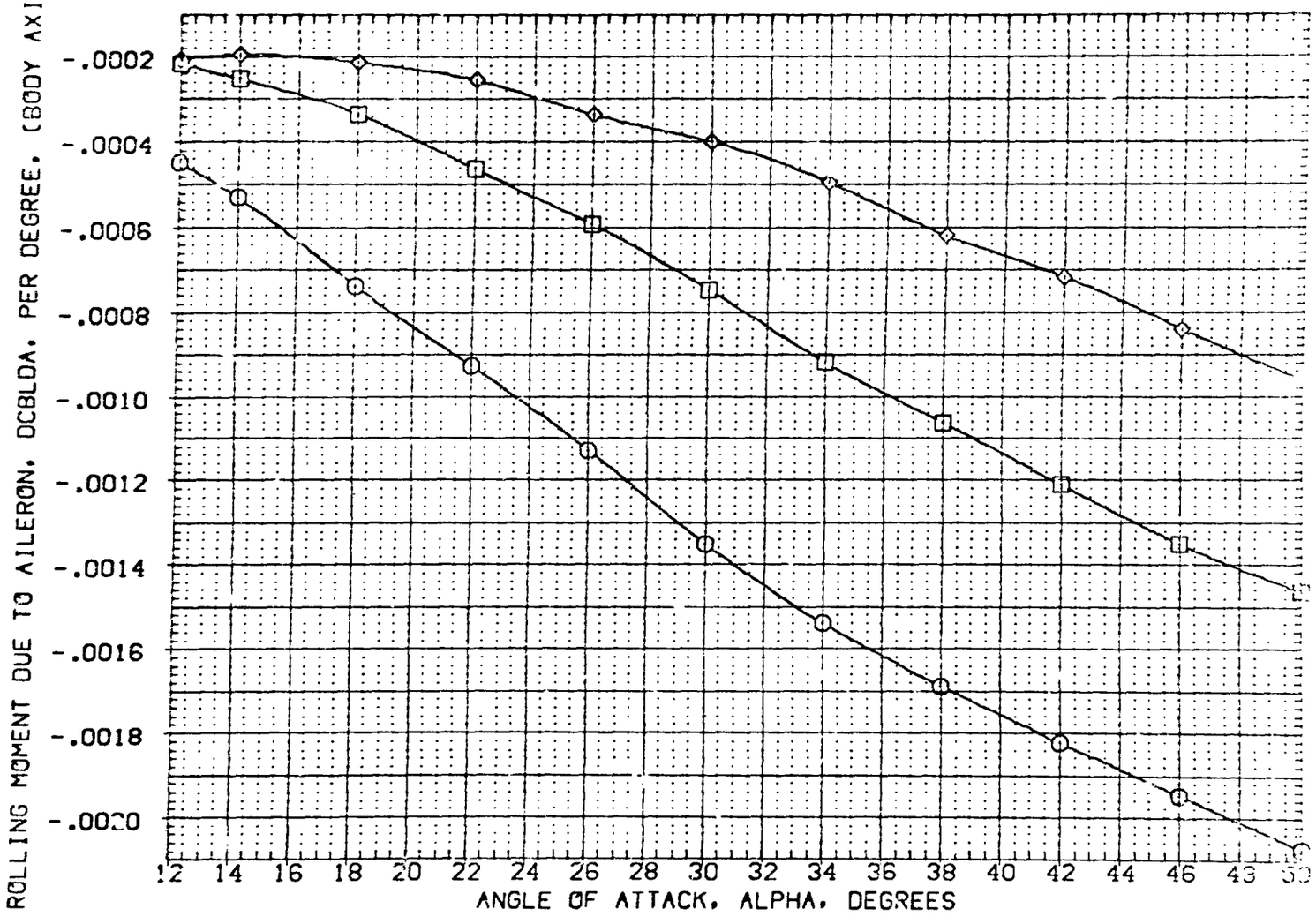


FIG. 11 AILERON EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(306012)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(806026)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.[illegible]	IN.
[illegible]	[illegible]	IN.
[illegible]	[illegible]	IN.
ZMRP	400.0000	IN.
SCALE	.0100	[illegible]

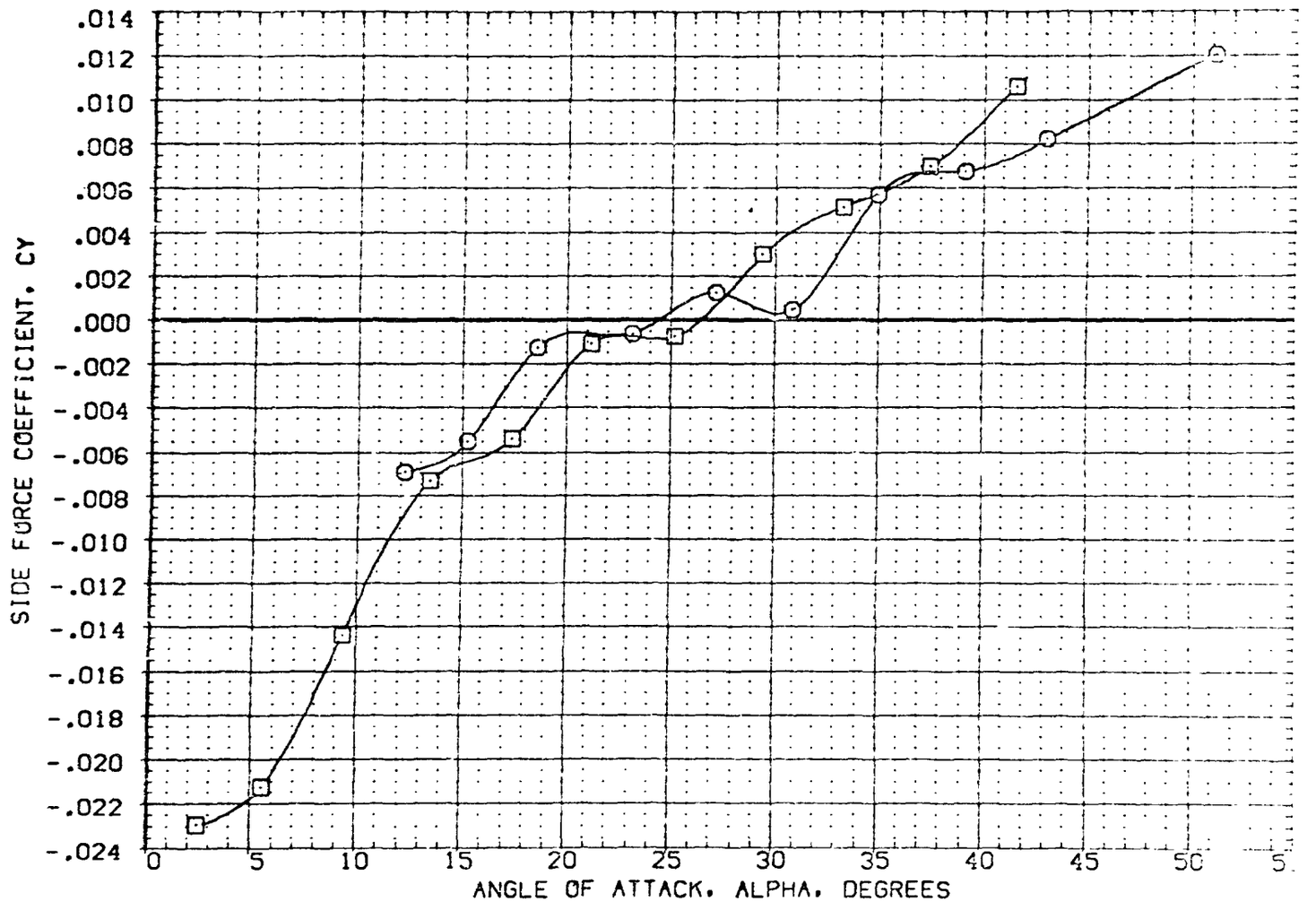


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE)

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER
(3[illegible]012)	○	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(B[illegible]026)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6600	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN
ZMRP	400.0000	IN
SCALE	.0100	SCALE

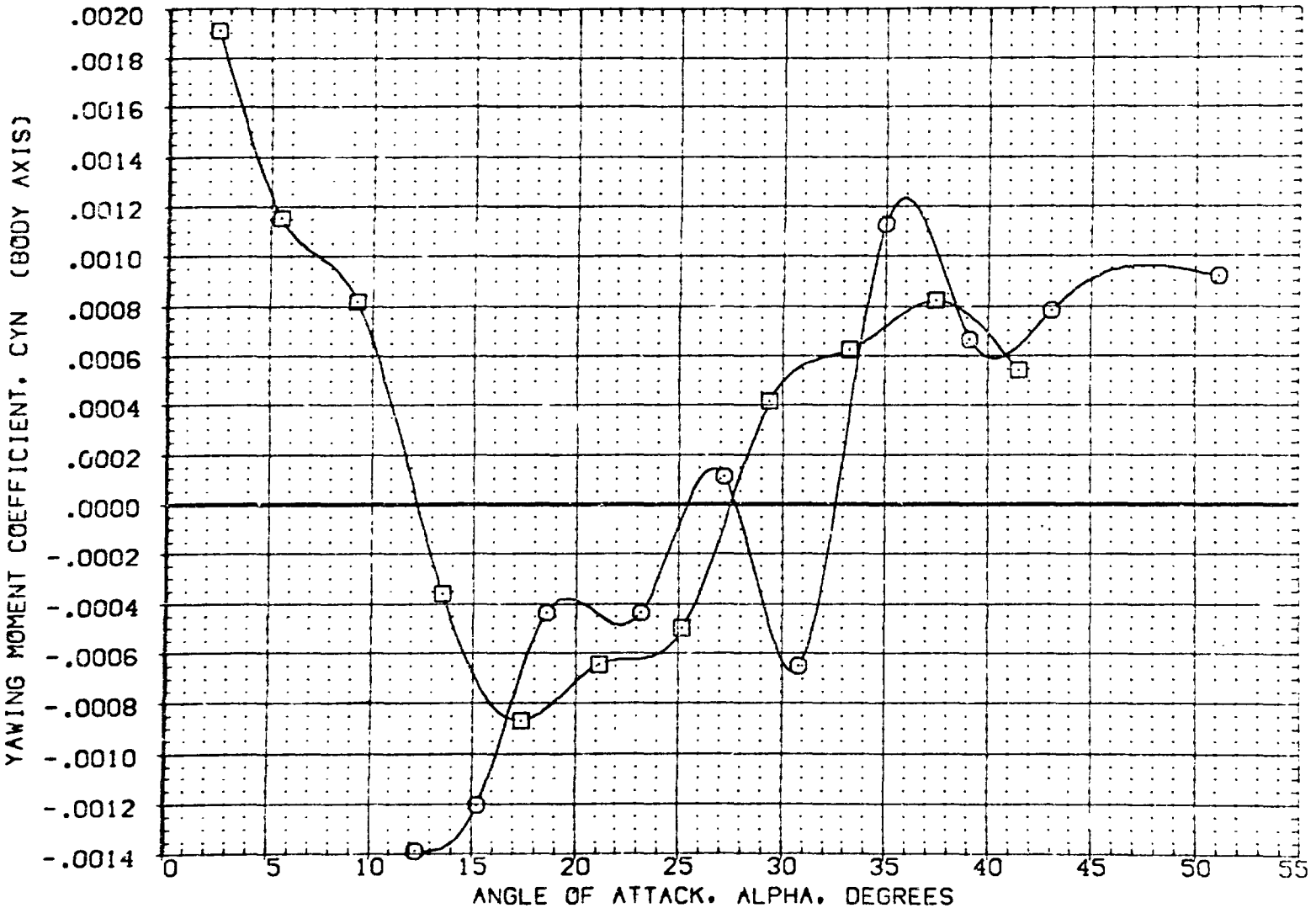


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(306012)		AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000
(306026)		AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	-10.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.[illegible]	IN.
DREF	930.[illegible]	IN.
XMRP	1078.[illegible]	IN.
YMRP	.[illegible]	IN.
ZMRP	0.000[illegible]	IN.
SCALE	.0100	SCALE

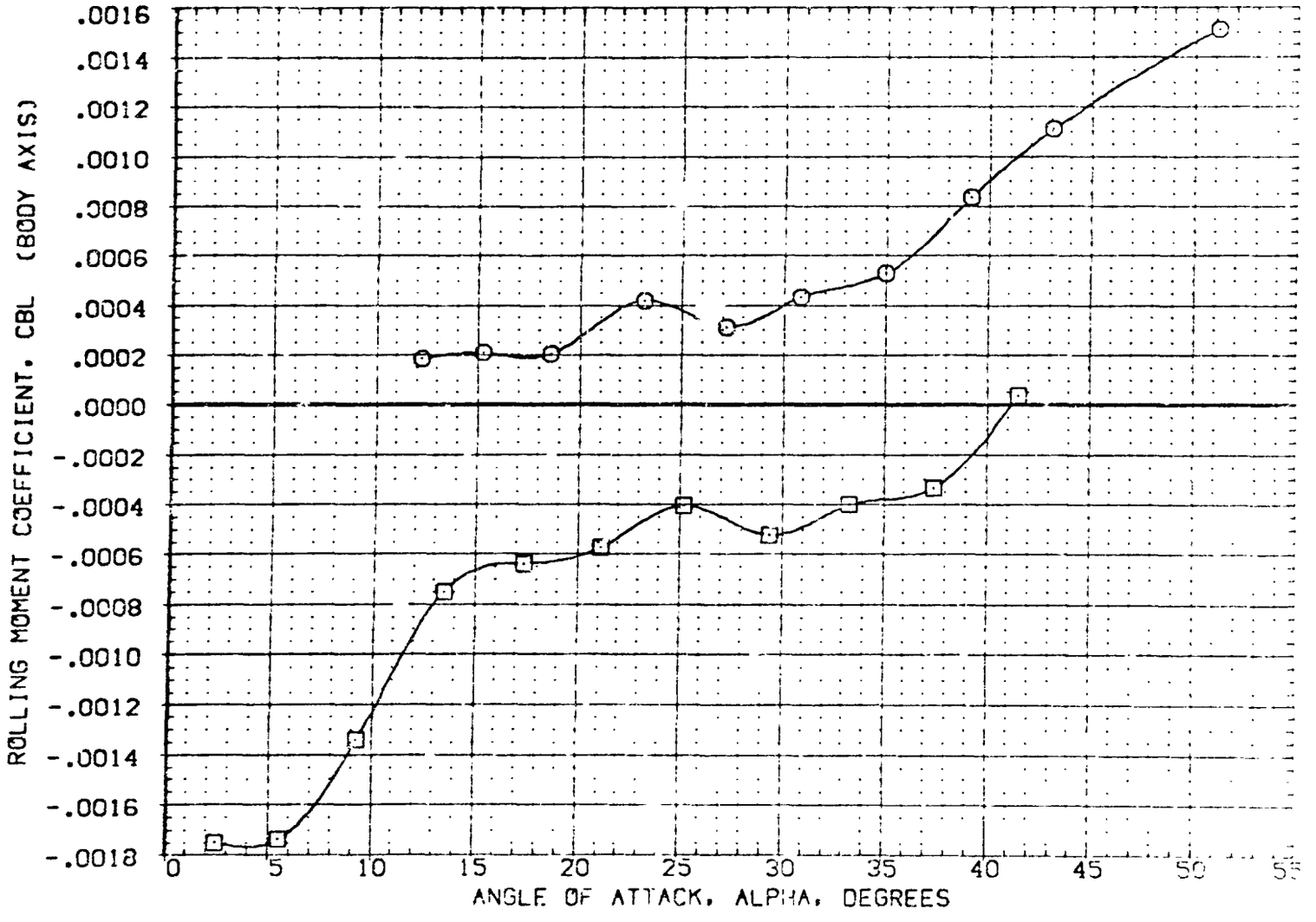


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

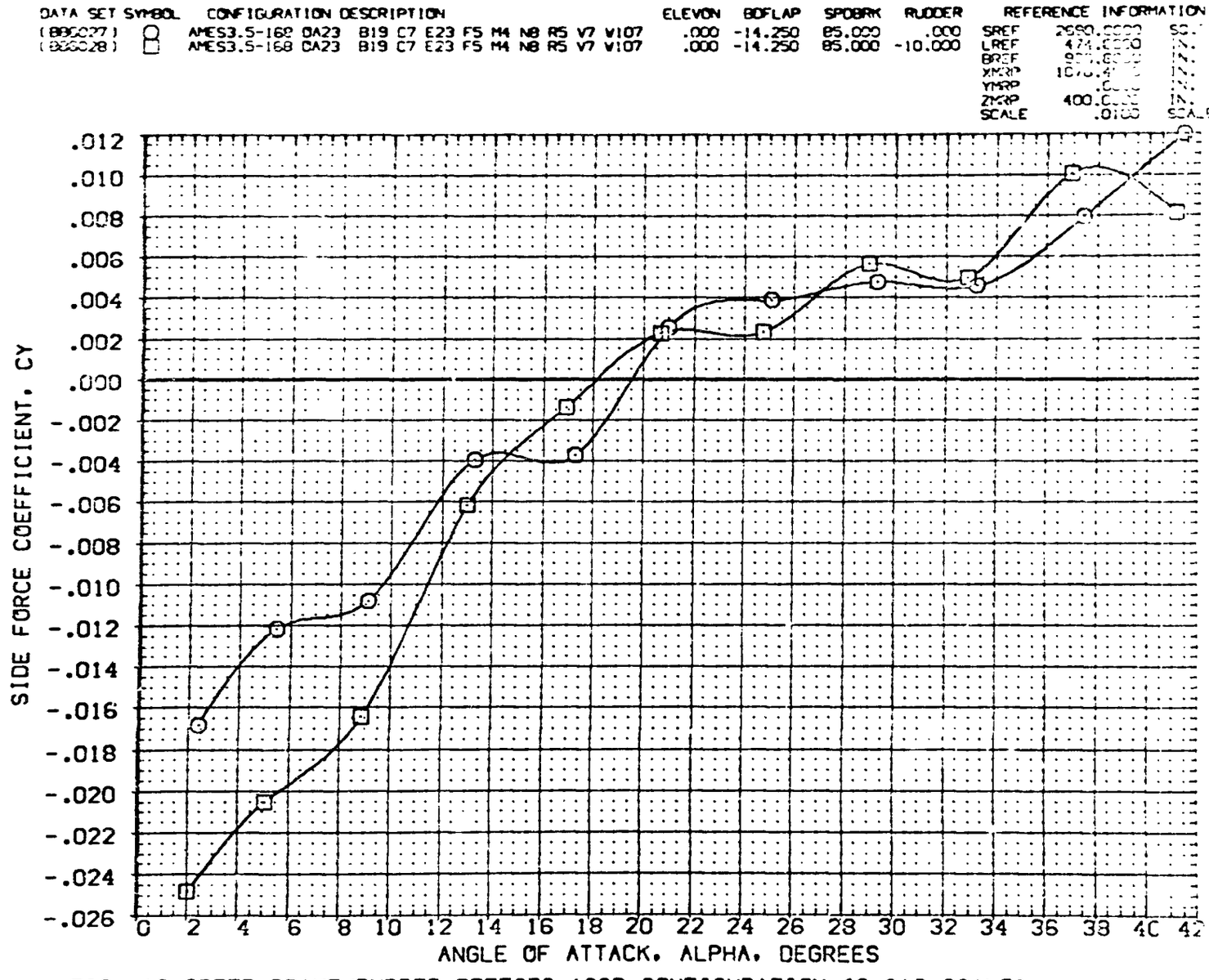


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBPK	RUDDER
(886027)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	85.000	.000
(886026)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	85.000	-10.000

REFERENCE INFORMATION

SREF	2000.0000	SQ. IN.
LREF	474.1000	IN.
BREF	999.6000	IN.
XMRP	1070.0000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

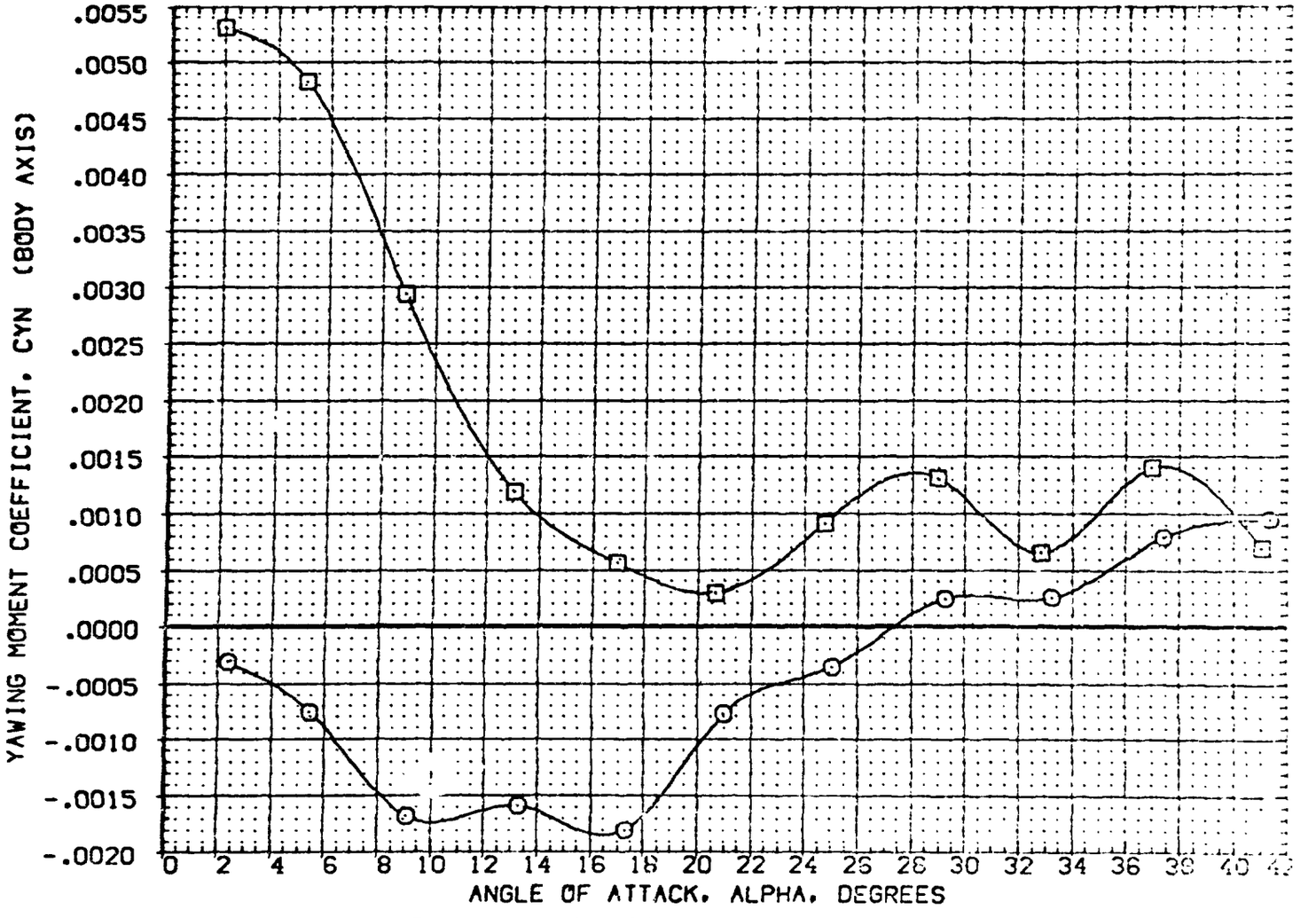


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER
(B86027)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	85.000	.000
(B86028)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	85.000	-10.000

REFERENCE INFORMATION		
SREF	2000.0000	SQ.
LREF	474.8000	IN.
BREF	936.6700	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

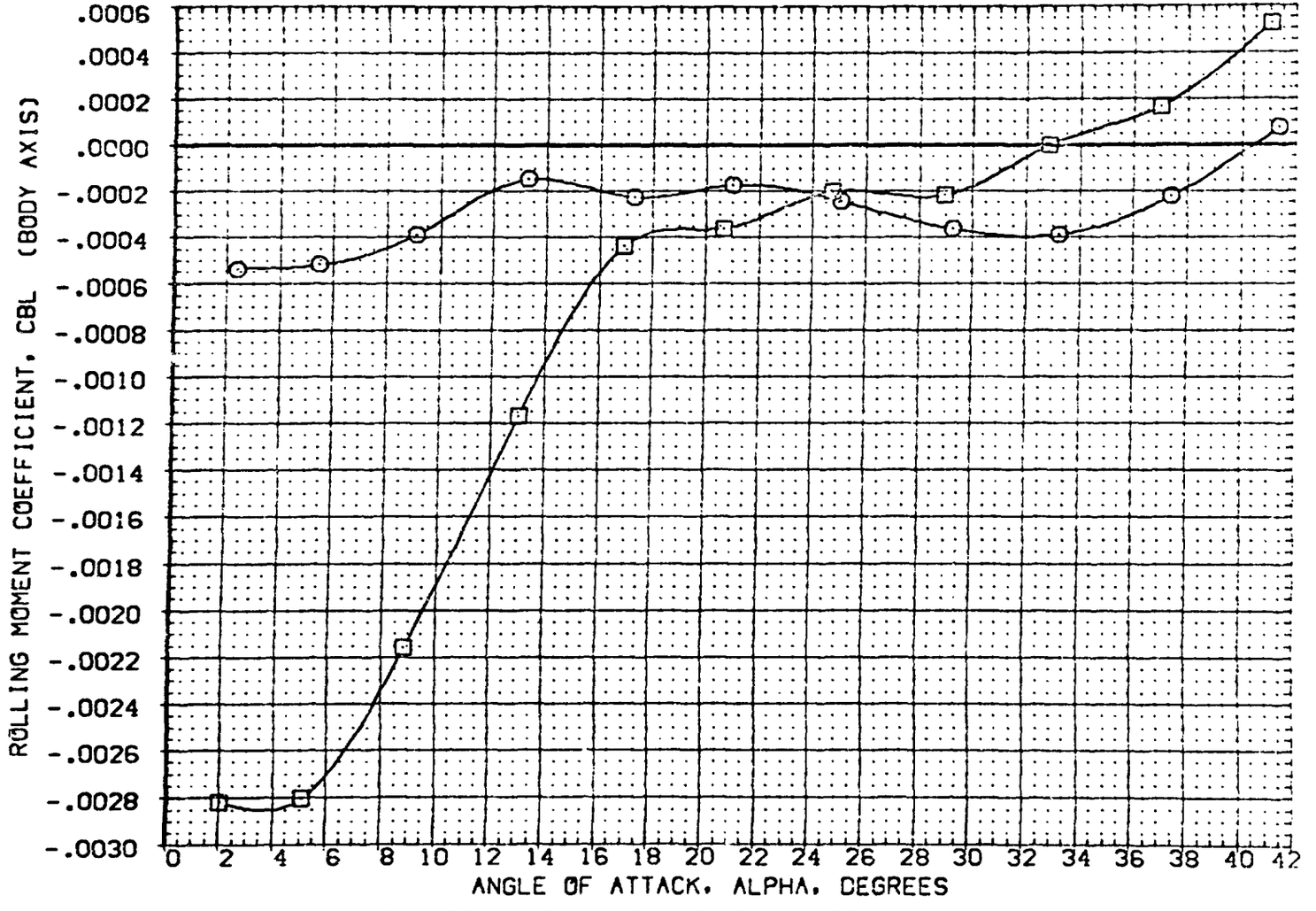


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DR	SPOBRK	BOFLAP	ELEVON
(T86026)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	55.000	-14.250	.000
(T86028)		AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	85.000	-14.250	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

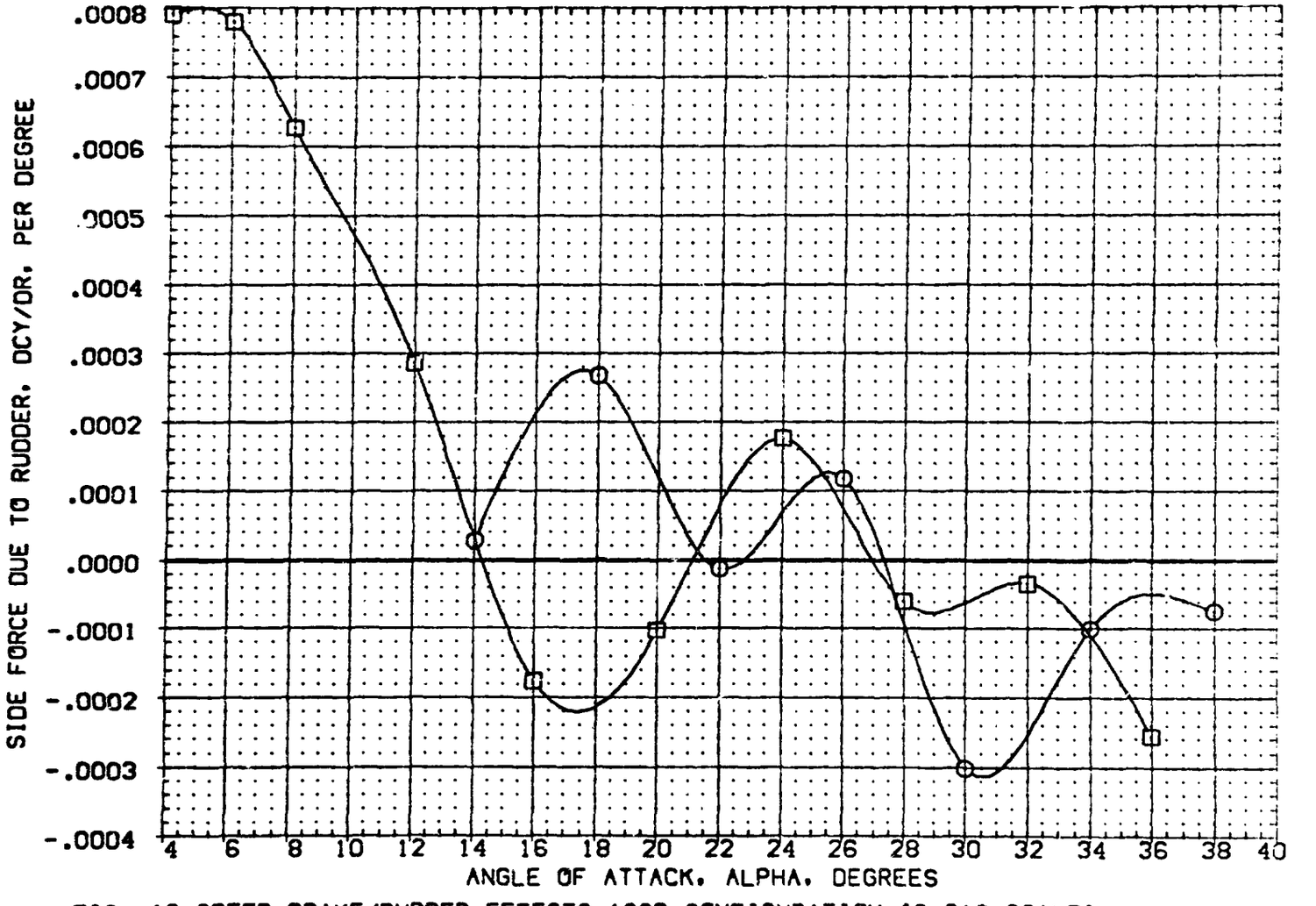


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

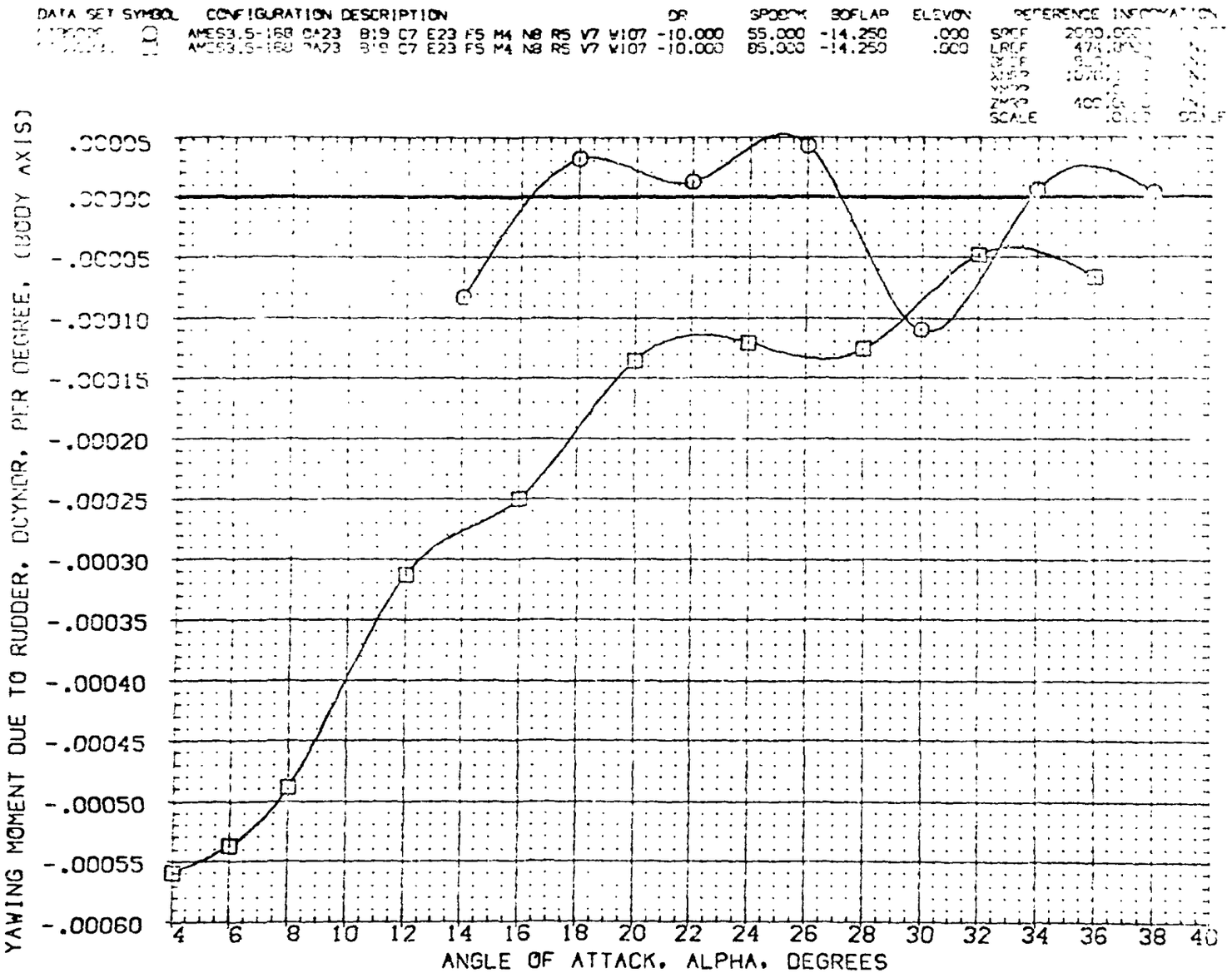


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DR	SPOBRK	BOFLAP	ELEVON
(TB6026)	○	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	55.000	-14.250	.000
(TB6028)	□	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	85.000	-14.250	.000

REFERENCE INFORMATION		
SREF	2600.0000	SQ.FT.
LREF	474.0000	IN.
BREF	900.0000	IN.
XMRP	1076.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0100	SCALE

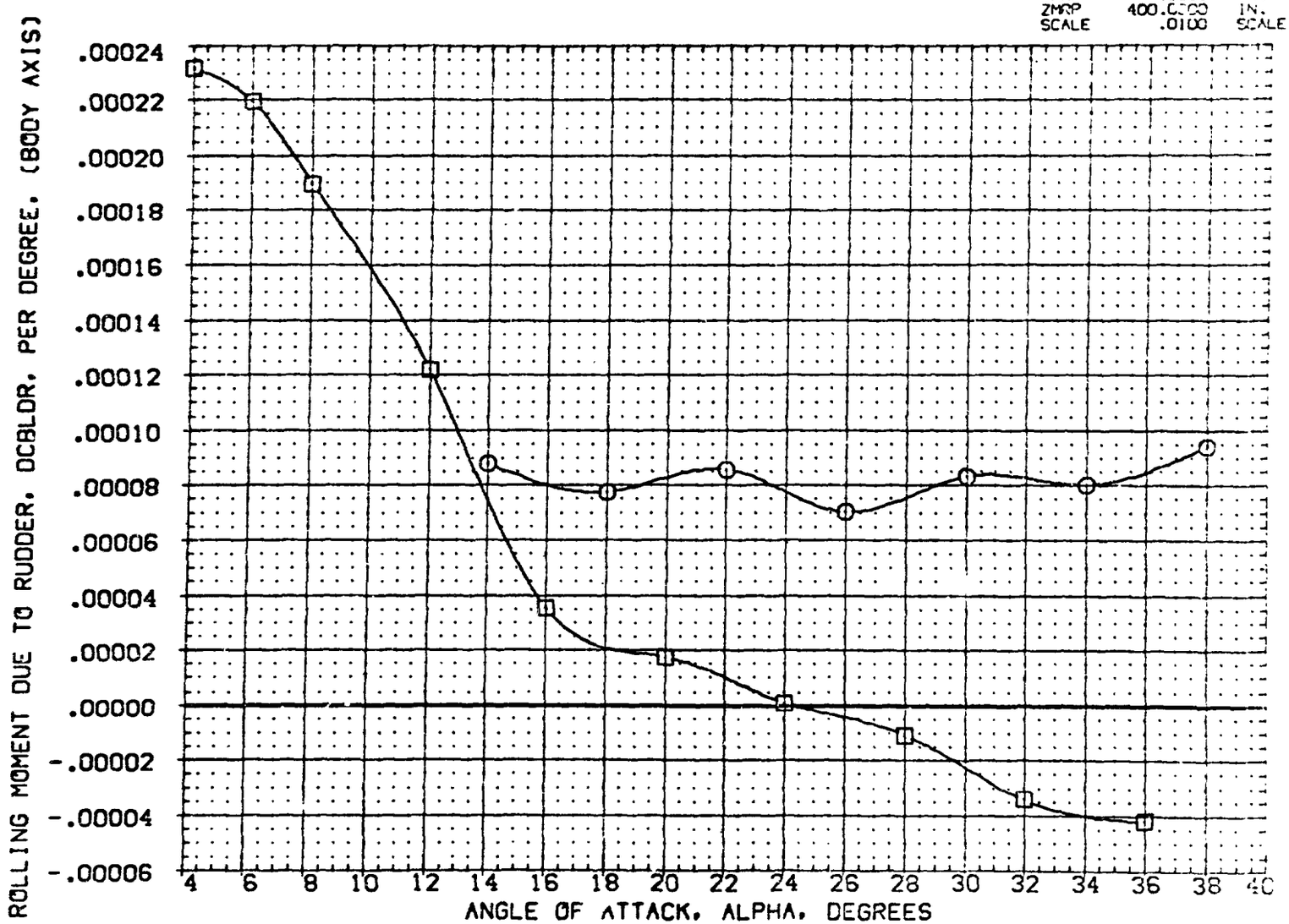


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

APPENDIX

TABULATED SOURCE DATA

Tabulations of plotted data are available on request from Data Management Systems

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (RB6001) (13 SEP 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 10/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	2.009	-.03007	.08569	-.02011	-.03306	.08459	.02873	-551.34600	-.03967	-.03253	-.03520
5.260	5.031	.03369	.08032	-.01620	.02644	.08298	-.01068	-550.40600	-.04090	-.03427	-.03670
5.260	8.715	.11720	.07414	-.01117	.10461	.09104	-.02613	-550.60900	-.04165	-.03492	-.03746
5.260	12.815	.22965	.07054	-.00718	.20828	.11972	-.03820	-550.31800	-.04203	-.03586	-.03877
5.260	16.823	.35165	.06665	-.00707	.31731	.16557	-.03856	-542.59400	-.04212	-.03705	-.03835
5.260	20.532	.46406	.06379	-.00830	.41221	.22250	-.04094	-531.28300	-.04155	-.03991	-.03998
5.260	24.535	.62650	.06464	-.01036	.54309	.31896	-.03847	-537.44300	-.04119	-.03658	-.03762
5.260	28.760	.78884	.06403	-.01669	.66073	.43568	-.03826	-532.47700	-.04060	-.03706	-.03713
5.260	32.738	.95512	.06356	-.02505	.76902	.57001	-.03827	-532.53700	-.04023	-.03572	-.03787
5.260	36.808	1.12276	.06257	-.03516	.86144	.72278	-.03759	-530.86100	-.03883	-.03653	-.03724
5.260	40.824	1.28571	.05975	-.04624	.93386	.88573	-.03585	-529.51400	-.03771	-.03494	-.03461
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 22/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.513	-.04065	.07886	-.02782	-.04272	.07776	-.01881	-.01943	-.01544	-.01473	-.01506
7.320	1.917	-.03463	.07824	-.02663	-.03722	.07704	-.01444	-.01590	-.01963	-.01175	-.01282
7.320	4.936	.01771	.07197	-.01888	.01145	.07323	-.01597	-.01677	-.02053	-.01313	-.01408
7.320	8.729	.08874	.06642	-.00925	.07763	.07912	-.01607	-.01737	-.02053	-.01304	-.01461
7.320	12.858	.18480	.06196	.00012	.16638	.10153	-.02038	-.02088	-.01816	-.01710	-.01731
7.320	16.810	.30439	.06116	.00739	.27370	.14658	-.01677	-.01807	-.02047	-.01371	-.01471
7.320	20.544	.41767	.06054	.01162	.36987	.20328	-.02055	-.02088	-.01860	-.01690	-.01732
7.320	24.543	.57333	.06212	.01367	.49572	.29466	-.01725	-.01816	-.01924	-.01204	-.01389
7.320	28.863	.72957	.05944	.01301	.61025	.40424	-.01947	-.01959	-.01795	-.01600	-.01588
7.320	32.797	.89128	.05054	.00872	.71641	.53366	-.01820	-.01830	-.01668	-.01558	-.01464
7.320	36.908	1.06676	.05927	.00118	.81739	.68803	-.01625	-.01711	-.01572	-.01470	-.01346
7.320	40.811	1.22820	.05756	-.00507	.89198	.84627	-.01079	-.01182	-.01099	-.00938	-.00876
	GRADIENT	.01716	-.00204	.00259	.01594	-.00130	.00033	.00037	-.00104	.00012	.00002

AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107 (RB0001) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 2/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.961	-.03346	.07703	-.02760	-.03607	.07584	-.00126	.00096	-.00900	.00521	.00094
10.290	5.009	.01523	.07009	-.02034	.00905	.07115	-.00231	.00049	-.00871	.00426	.00012
10.290	8.695	.08225	.06425	-.01097	.07160	.07595	-.00274	.00011	-.00823	.00610	.00013
10.290	12.804	.17581	.06038	-.00148	.15806	.09784	-.00378	-.00060	-.00769	.00425	.00012
10.290	16.795	.29022	.05474	.00495	.26203	.13626	-.00378	-.00060	-.00643	.00344	.00114
10.290	20.533	.40102	.05933	.00388	.35473	.19621	-.00735	-.00473	-.00401	-.00204	-.00339
10.290	24.397	.56017	.05386	.01088	.48791	.28043	-.00385	-.00003	-.00403	.00597	.00696
10.290	28.664	.73140	.05253	.00865	.61656	.39695	-.00349	-.00035	-.00307	.00482	.00919
10.290	32.549	.88838	.04483	.00494	.72473	.51576	-.00275	-.00060	-.00091	.00769	.00696
10.290	36.661	1.05752	.06312	-.00534	.81064	.68206	-.00084	.00196	.00197	.00655	.00697
10.290	40.701	1.22295	.06215	-.01513	.88662	.84461	.00591	.00600	.00511	.01140	.00921
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (RB6002) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BODYFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 9/ 0 RN/L = 1.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	12.262	.19217	.06776	-.00678	.17340	.10703	-.03218	.25802	-.03812	-.02761	-.03263
5.260	13.439	.22626	.06729	-.00613	.20443	.11803	-.03278	.25762	-.03825	-.02835	-.03320
5.260	17.126	.34269	.06488	-.00588	.30838	.16292	-.03276	.25905	-.03830	-.02815	-.03334
5.260	20.944	.47271	.06289	-.00714	.41900	.22770	-.03768	.11337	-.03667	-.03213	-.03234
5.260	25.021	.64010	.06276	-.00944	.55349	.32750	-.03393	.25684	-.03731	-.02744	-.03299
5.260	28.078	.80770	.06375	-.01570	.67648	.44590	-.03366	.25447	-.03607	-.02767	-.03214
5.260	32.820	.97896	.06306	-.02371	.73852	.58360	-.03209	.25046	-.03466	-.02713	-.03045
5.260	36.771	1.15434	.06104	-.03375	.88812	.73990	-.03176	.24605	-.03345	-.02850	-.02876
5.260	41.056	1.33958	.05619	-.04419	.97322	.92221	-.03087	.24141	-.03282	-.02781	-.02716
	GRADIENT	.04014	-.00030	-.00126	.02879	.02784	.00007	.00020	.00020	.00003	.00019

RUN NO. 26/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.023	.15301	.06337	-.00253	.13645	.09385	-.01818	-.01759	-.01805	-.01757	-.01617
7.320	13.228	.18528	.06302	-.00065	.16594	.10375	-.01838	-.01735	-.01804	-.01765	-.01665
7.320	17.139	.29925	.06102	.00560	.26798	.14650	-.01869	-.01790	-.01804	-.01859	-.01669
7.320	20.872	.42432	.06022	.00971	.37502	.20745	-.02184	-.02016	-.01802	-.01960	-.01860
7.320	25.052	.58398	.06121	.01111	.50312	.30274	-.01996	-.01927	-.01856	-.01823	-.01740
7.320	28.929	.74052	.06167	.00966	.61829	.41218	-.01906	-.01876	-.01804	-.01756	-.01661
7.320	32.738	.90115	.06132	.00557	.72485	.53892	-.01838	-.01753	-.01674	-.01584	-.01517
7.320	36.904	1.08198	.05942	-.00281	.82952	.69721	-.01816	-.01688	-.01543	-.01797	-.01368
7.320	40.978	1.25673	.05762	-.01286	.91103	.86759	-.01679	-.01551	-.01395	-.01567	-.01245
	GRADIENT	.03828	-.00014	-.00024	.02762	.02619	.00005	.00006	.00012	.00007	.00013

RUN NO. 8/ 0 RN/L = 1.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	11.984	.14595	.06406	-.00452	.12947	.09297	.00053	-.00199	-.00276	.00051	.00150
10.290	13.232	.17798	.06303	-.00223	.15883	.10209	-.00040	-.00217	-.00277	.00020	.00008
10.290	17.070	.28924	.06229	.00327	.25821	.14446	-.00061	-.00235	-.00278	.00057	.00052
10.290	20.691	.40534	.06261	.00477	.35707	.20179	-.00499	-.00496	-.00274	-.00359	-.00264
10.290	24.962	.57816	.06426	.00791	.49703	.30226	-.00120	-.00218	-.00157	.00125	.00303
10.290	28.780	.73913	.06581	.00422	.61614	.41354	-.00070	-.00102	-.00035	.00267	.00602
10.290	32.592	.90496	.06599	-.00013	.72691	.54305	-.00060	-.00088	.00047	.00269	.00550
10.290	36.745	1.09399	.06551	-.00954	.83743	.70697	.00030	-.00014	.00146	.00320	.00525
10.290	40.812	1.27120	.06299	-.02408	.92095	.87851	.00241	.00097	.00215	.00471	.00523
	GRADIENT	.03934	.00006	-.00051	.02845	.02679	.00007	.00012	.00019	.00017	.00024

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (RB6003) (13 SEP 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BOFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 13/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	1.916	-.07930	.10736	.00978	-.08284	.10464	-.03166	-.03341	-.03887	-.03012	-.03279
5.260	4.927	-.00966	.09545	.00886	-.01783	.09427	-.03435	-.03306	-.04066	-.03405	-.03528
5.260	8.628	.07664	.08545	.01141	.06295	.09598	-.03611	-.03563	-.04184	-.03497	-.03673
5.260	12.740	.18496	.07718	.01605	.16339	.11607	-.03754	-.03633	-.04243	-.03606	-.03789
5.260	16.768	.29848	.07071	.02064	.26538	.15381	-.03715	-.03669	-.04244	-.03638	-.03799
5.260	20.529	.41147	.06796	.02343	.36150	.20794	-.04183	-.04118	-.04110	-.04078	-.04062
5.260	24.454	.55085	.06748	.02862	.47351	.28945	-.03867	-.03840	-.04188	-.03649	-.03840
5.260	28.692	.69730	.06602	.03176	.57998	.39269	-.03852	-.03824	-.04108	-.03685	-.03790
5.260	32.627	.84502	.06559	.03231	.67631	.51085	-.03881	-.03847	-.04079	-.03793	-.03780
5.260	36.765	.99692	.06400	.03365	.76032	.64796	-.03747	-.03709	-.03834	-.03575	-.03601
5.260	40.775	1.14293	.06031	.03262	.82613	.79212	-.03627	-.03539	-.03692	-.03520	-.03373
	GRADIENT	.02313	-.00395	-.00031	.02159	-.00345	-.00089	.00012	-.00059	-.00131	-.00083

RUN NO. 17/ 0 RN/L = 1.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.798	-.07765	.09932	-.00331	-.08073	.09684	-.01217	-.01539	-.01527	-.01105	-.01120
7.320	4.928	-.01736	.08640	-.00042	-.02471	.08459	-.01461	-.01572	-.01702	-.01333	-.01369
7.320	8.615	.06067	.07588	.00713	.04862	.08411	-.01598	-.01709	-.01789	-.01494	-.01460
7.320	12.793	.16251	.06945	.01643	.14310	.10371	-.01598	-.01700	-.01789	-.01489	-.01492
7.320	16.805	.27149	.06546	.02774	.24097	.14115	-.01598	-.01750	-.01789	-.01519	-.01493
7.320	20.531	.37845	.06479	.03606	.33168	.19340	-.01852	-.01902	-.01658	-.01746	-.01617
7.320	24.578	.52084	.06527	.04568	.44651	.27599	-.01551	-.01704	-.01658	-.01333	-.01377
7.320	28.707	.67177	.06506	.05384	.55795	.37974	-.01535	-.01677	-.01576	-.01341	-.01369
7.320	32.668	.81969	.06606	.05960	.65437	.49806	-.01492	-.01626	-.01449	-.01304	-.01269
7.320	36.763	.97074	.06382	.06191	.73947	.63213	-.01387	-.01558	-.01271	-.01329	-.01166
7.320	40.754	1.12261	.06273	.06368	.80945	.78037	-.01265	-.01420	-.01083	-.00998	-.00996
	GRADIENT	.01926	-.00413	.00092	.01789	-.00391	-.00078	-.00010	-.00056	-.00073	-.00079

AMES3.5-168 OA23 B22 C7 E23 F3 M4 R5 V7 W107 (RB6003) (13 SEP 73)

REFERENCE DATA

SREF =	2891.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	-40.000
AILRON =	.000	BDFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 6/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.914	-.05696	.09654	-.00847	-.06016	.09458	-.00010	-.00142	-.00690	.00446	.00245
10.290	4.963	-.00089	.08448	-.00485	-.00820	.08409	-.00181	-.00253	-.00778	.00187	.00051
10.290	8.616	.07158	.07360	.00215	.05975	.08349	-.00430	-.00343	-.00891	.00160	-.00120
10.290	12.747	.16825	.06678	.01242	.14937	.10226	-.00451	-.00382	-.00771	.00113	-.00144
10.290	16.781	.28237	.06501	.02234	.25158	.14376	-.00452	-.00379	-.00695	.00141	-.00123
10.290	20.483	.38122	.06527	.03100	.33428	.19454	-.00743	-.00777	-.00529	-.00358	-.00429
10.290	24.487	.53785	.06730	.03906	.46158	.28418	-.00380	-.00333	-.00482	.00292	.00172
10.290	28.692	.68936	.06775	.04552	.57219	.39039	-.00306	-.00333	-.00410	.00213	.00286
10.290	32.587	.83498	.06974	.05085	.66598	.50846	-.00223	-.00282	-.00289	.00517	.00286
10.290	36.664	.99510	.06998	.05522	.75643	.65033	-.00106	-.00170	-.00067	.00795	.00287
10.290	40.751	1.15409	.06814	.05727	.82980	.80498	.00253	.00070	.00157	.00312	.00415
	GRADIENT	.01839	-.00395	.00119	.01704	-.00344	-.00056	-.00036	-.00029	-.00085	-.00064

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (R8603A) (13 SEP 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0130 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 13/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	1.916	-.07930	.10736	.00978	-.08284	.10464	-.03166	-.03341	-.03887	-.03012	-.03279
5.260	4.927	-.00966	.09345	.00886	-.01783	.09427	-.03435	-.03306	-.04066	-.03405	-.03528
5.260	8.628	.07664	.08545	.01141	.06295	.09598	-.03611	-.03563	-.04184	-.03497	-.03673
5.260	12.740	.16496	.07718	.01605	.16339	.11607	-.03754	-.03633	-.04243	-.03606	-.03789
5.260	16.768	.29848	.07071	.02064	.26538	.15381	-.03715	-.03669	-.04244	-.03638	-.03799
5.260	20.529	.41147	.06796	.02343	.36150	.20794	-.04183	-.04118	-.04110	-.04078	-.04062
5.260	24.454	.55085	.06748	.02862	.47351	.28945	-.03867	-.03840	-.04188	-.03649	-.03840
5.260	28.692	.69730	.06602	.03176	.57998	.39269	-.03852	-.03824	-.04108	-.03685	-.03790
5.260	32.627	.84502	.06559	.03231	.67631	.51085	-.03881	-.03847	-.04079	-.03793	-.03780
5.260	36.765	.99692	.06400	.03365	.78032	.64796	-.03747	-.03709	-.03834	-.03575	-.03601
5.260	40.775	1.14293	.06031	.03262	.82613	.79212	-.03627	-.03539	-.03692	-.03520	-.03373
	GRADIENT	.02313	-.00395	-.00031	.02159	-.00345	-.00089	.00012	-.00059	-.00131	-.00083

RUN NO. 17/ 0 RN/L = 1.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.798	-.07765	.09932	-.00331	-.08073	.09684	-.01217	-.01539	-.01527	-.01105	-.01120
7.320	4.928	-.01736	.08640	-.00042	-.02471	.08459	-.01461	-.01572	-.01702	-.01335	-.01369
7.320	8.615	.06067	.07588	.00713	.04862	.08411	-.01598	-.01709	-.01789	-.01494	-.01460
7.320	12.793	.16251	.06945	.01643	.14310	.10371	-.01598	-.01700	-.01789	-.01489	-.01492
7.320	16.805	.27149	.06546	.02774	.24097	.14115	-.01598	-.01750	-.01789	-.01519	-.01493
7.320	20.531	.37845	.06479	.03606	.33168	.19340	-.01852	-.01902	-.01658	-.01746	-.01617
7.320	24.578	.52084	.06527	.04568	.44651	.27599	-.01551	-.01704	-.01658	-.01033	-.01377
7.320	28.707	.67177	.06506	.05384	.55795	.37974	-.01535	-.01677	-.01576	-.01341	-.01369
7.320	32.668	.81969	.06606	.05960	.65437	.49806	-.01492	-.01526	-.01449	-.01304	-.01269
7.320	36.763	.97074	.06382	.06191	.73547	.63213	-.01387	-.01558	-.01271	-.01329	-.01166
7.320	40.754	1.12261	.06273	.06368	.80945	.78037	-.01265	-.01420	-.01083	-.00998	-.00996
	GRADIENT	.01926	-.00413	.00092	.01769	-.00391	-.00078	-.00010	-.00056	-.00073	-.00079

AMES3.5-138 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (RB003A) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = -14.000
SPDBRK = 55.000 RUDDER = .000

RUN NO. 7/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.642	-.08116	.09856	-.00748	-.08395	.09619	-.00290	-.00453	-.00192	-.00049	-.00012
10.290	4.880	-.02349	.08474	-.00545	-.03062	.08244	-.00444	-.00472	-.00243	-.00170	-.00175
10.290	8.675	.05002	.07185	.00159	.03862	.07857	-.00647	-.00602	-.00444	-.00364	-.00434
10.290	12.799	.14768	.06571	.01064	.12945	.09680	-.00642	-.00645	-.00545	-.00338	-.00442
10.290	16.911	.26053	.06312	.02208	.23090	.13618	-.00642	-.00654	-.00562	-.00422	-.00446
10.290	20.572	.37960	.06458	.03012	.33270	.19385	-.00743	-.00729	-.00559	-.00462	-.00478
10.290	24.706	.51556	.06453	.03829	.44139	.27411	-.00578	-.00623	-.00580	-.00337	-.00433
10.290	28.849	.67167	.06642	.04487	.55626	.38226	-.00431	-.00517	-.00444	-.00109	-.00133
10.290	32.826	.83025	.06837	.05043	.66061	.50753	-.00285	-.00359	-.00343	-.00052	.00092
10.290	36.885	.98704	.06841	.05292	.74842	.64715	-.00079	-.00239	-.00197	.00441	.00138
10.290	40.740	1.13944	.06680	.05302	.81972	.79425	.00309	.00[illegible]	.00001	.00472	.00366
	GRADIENT	.01781	-.00427	.00063	.01647	-.00425	-.00048	-.00006	-.00016	-.00037	-.00050

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (RB80D4) (13 SEP 73)

REFERENCE DATA

SREF =	2680.0000 SQ.FT.	XMRP =	1078.4300 IN.		
LREF =	474.6000 IN.	YMRP =	.0000 IN.		
BREF =	936.6600 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	-20.000
AILRON =	.000	BDFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 24/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.851	-.05086	.08062	-.01616	-.05324	.07894	-.01151	-.01373	-.01589	-.01080	-.01017
7.320	4.943	.00546	.07344	-.01050	-.00089	.07364	-.01341	-.01387	-.01736	-.01227	-.01226
7.320	8.659	.07876	.06759	-.00031	.06769	.07868	-.01461	-.01550	-.01753	-.01321	-.01291
7.320	12.818	.17486	.06368	.01214	.15637	.10089	-.01460	-.01559	-.01752	-.01312	-.01295
7.320	16.791	.28678	.06213	.02239	.25660	.14232	-.01460	-.01577	-.01713	-.01336	-.01286
7.320	20.489	.39015	.06100	.03044	.34411	.19370	-.01772	-.01783	-.01504	-.01524	-.01482
7.320	24.572	.53965	.06225	.03962	.46489	.28102	-.01460	-.01572	-.01621	-.01097	-.01240
7.320	28.716	.68821	.06233	.04637	.57362	.38533	-.01460	-.01558	-.01492	-.01098	-.01129
7.320	32.649	.83692	.06105	.05088	.67175	.50291	-.01385	-.01507	-.01343	-.00981	-.00988
7.320	36.791	.99555	.05933	.05174	.76173	.64375	-.01331	-.01446	-.01151	-.01243	-.00933
7.320	40.816	1.14930	.05628	.05073	.83302	.79381	-.01171	-.01257	-.00967	-.01105	-.00770
	GRADIENT	.01815	-.00232	.00183	.01693	-.00172	-.00061	-.00004	-.00048	-.00048	-.00068

AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107 (R80005) (13 SEP 73)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	15.000
AILRON =	.000	BOFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 14/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	1.977	-.01277	.08668	-.03287	-.01576	.08619	-.03376	-.03707	-.04050	-.03213	-.03412
5.260	5.019	.05339	.08170	-.03308	.04604	.08605	-.03532	-.03589	-.04169	-.03368	-.03580
5.260	8.674	.14473	.07893	-.03556	.13117	.09986	-.03584	-.03816	-.04210	-.03472	-.03662
5.260	12.777	.26248	.07866	-.04149	.23859	.13477	-.03709	-.03819	-.04300	-.03576	-.03801
5.260	16.803	.39756	.07997	-.05028	.35747	.19148	-.03724	-.03826	-.04332	-.03674	-.03813
5.260	20.399	.52750	.08282	-.06056	.46555	.26150	-.03818	-.03840	-.04298	-.03727	-.03823
5.260	20.626	.52999	.08197	-.06341	.46714	.26341	-.04148	-.04163	-.04117	-.04156	-.04027
5.260	24.517	.69008	.08676	-.07393	.59186	.36530	-.03895	-.03851	-.04222	-.03729	-.03693
5.260	28.710	.86895	.09188	-.08979	.71799	.49801	-.03848	-.03927	-.04182	-.03779	-.03553
5.260	32.703	1.03758	.09603	-.10676	.82122	.64140	-.03813	-.03939	-.04075	-.03734	-.03550
5.260	36.769	1.21320	.09878	-.12330	.91271	.80534	-.03793	-.03907	-.03903	-.03503	-.03619
5.260	40.833	1.38348	.09953	-.14102	.98169	.97990	-.03269	-.03172	-.03291	-.02932	-.02991
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 18/ 0 RN/L = 1.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.985	-.01863	.07997	-.03512	-.02144	.07928	-.01316	-.01345	-.01842	-.01198	-.01179
7.320	5.092	.03861	.07422	-.03153	.03187	.07735	-.01411	-.01410	-.01855	-.01285	-.01303
7.320	8.740	.11656	.07198	-.02860	.10427	.08885	-.01474	-.01483	-.01851	-.01314	-.01344
7.320	12.833	.22780	.07165	-.02904	.20620	.12046	-.01474	-.01483	-.01851	-.01314	-.01377
7.320	16.964	.36204	.07477	-.03481	.32447	.17715	-.01474	-.01483	-.01842	-.01364	-.01377
7.320	20.540	.47879	.07679	-.03891	.42141	.23990	-.01644	-.01721	-.01611	-.01613	-.01625
7.320	24.580	.64684	.08310	-.04827	.55366	.34464	-.01537	-.01537	-.01716	-.01322	-.01261
7.320	28.719	.81960	.08856	-.05965	.67622	.47150	-.01595	-.01620	-.01654	-.01363	-.01253
7.320	32.599	.98166	.09299	-.06983	.77691	.60721	-.01537	-.01620	-.01506	-.01222	-.01170
7.320	36.758	1.16070	.09529	-.08498	.87289	.77095	-.01341	-.01372	-.01200	-.01022	-.01004
7.320	40.819	1.32502	.09744	-.09881	.93906	.93987	-.00997	-.01124	-.00978	-.00747	-.00830
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B22 C7 E23 F3 M4 R5 V7 W107 (RB9005) (13 SEP 73)

REFERENCE DATA

SREF =	2680.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	15.000
AILRON =	.000	BDFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 3/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.980	-.01599	.07714	-.03423	-.01864	.07855	.00421	.00172	-.00452	.00718	.00454
10.290	5.067	.03813	.07119	-.03135	.03169	.07428	.00276	.00097	-.00463	.00597	.00341
10.290	8.751	.11407	.06864	-.02894	.10230	.08520	.00198	.00041	-.00475	.00548	.00258
10.290	12.833	.22281	.06898	-.03175	.20192	.11674	.00129	-.00006	-.00467	.00490	.00227
10.290	16.785	.34782	.07216	-.03633	.31218	.16953	.00105	-.00010	-.00403	.00491	.00227
10.290	20.448	.47550	.07599	-.04972	.41899	.23732	-.00176	-.00250	-.00068	.00026	.00071
10.290	20.662	.48086	.07471	-.04469	.42357	.23958	.00369	.00173	-.00619	.00822	.00444
10.290	24.513	.64751	.08406	-.05708	.55427	.34513	.00072	-.00047	-.00247	.00648	.00469
10.290	28.604	.82682	.09162	-.07384	.68204	.47628	.00131	-.00081	-.00138	.00934	.00635
10.290	32.571	.98985	.09683	-.08255	.78205	.61447	.00239	.00047	.00102	.00641	.00601
10.290	36.682	1.17333	.10070	-.10165	.88082	.78167	.00778	.00467	.00466	.00717	.00837
10.290	40.860	1.35434	.10390	-.11951	.95633	.96460	.01166	.01057	.00953	.01155	.01316
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B22 C7 E23 F3 M4 R5 V7 W107 (R80006) (13 SEP 73)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1078.4800 IN.		
LREF =	474.6000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	-40.000
AILRON =	.000	BDFLAP =	.000
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 25/ 0 RN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.775	-.07805	.09993	-.00343	-.07911	.09754	-.01388	-.01699	-.01885	-.01514	-.01257
7.320	4.662	-.01492	.08673	-.00117	-.02224	.08515	-.01672	-.01817	-.02080	-.01711	-.01537
7.320	8.610	.06330	.07536	.00594	.05130	.08398	-.01793	-.01936	-.02162	-.01781	-.01631
7.320	12.779	.16413	.06944	.01528	.14470	.10402	-.01799	-.01931	-.02162	-.01818	-.01656
7.320	16.794	.27877	.06582	.02413	.24787	.14356	-.01772	-.01991	-.02092	-.01711	-.01639
7.320	20.472	.38783	.06345	.02975	.34044	.19696	-.02156	-.02218	-.01900	-.02022	-.01840
7.320	24.554	.53862	.06604	.03618	.46246	.28390	-.01719	-.01940	-.01956	-.01571	-.01561
7.320	28.766	.69196	.06632	.04088	.57466	.39113	-.01703	-.01890	-.01901	-.01645	-.01507
7.320	32.678	.84039	.06638	.04381	.67154	.50961	-.01703	-.01894	-.01771	-.01620	-.01379
7.320	36.619	.99890	.06661	.04371	.75974	.65195	-.01808	-.01793	-.01557	-.01640	-.01263
7.320	40.872	1.15411	.06398	.04212	.83084	.80360	-.01439	-.01628	-.01396	-.01442	-.01057
	GRADIENT	.01968	-.00425	.00073	.01831	-.00399	-.00091	-.00038	-.00063	-.00063	-.00090

AMES3.5-160 OA23 B22 C7 E23 F3 H4 R5 V7 W107 (RB8007) (13 SEP 73)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.8800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	.000
AILRON =	.000	BDFLAP =	.000
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 11/ 0 RN/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	1.997	-.02752	.08427	-.02084	-.03044	.08326	.08508	-.02961	-.03665	-.03105	-.03207
5.260	3.051	.03495	.07848	-.01756	.02790	.08126	.02785	-.03381	-.03848	-.03210	-.03405
5.260	8.736	.11917	.07235	-.01324	.10680	.08961	-.01017	-.03586	-.03923	-.03379	-.03538
5.260	12.696	.22743	.06874	-.01144	.20676	.11705	-.03266	-.03599	-.03964	-.03413	-.03606
5.260	16.780	.35232	.06612	-.01274	.31823	.16502	-.03489	-.03619	-.03914	-.03488	-.03535
5.260	20.503	.47570	.06506	-.01845	.42278	.22756	-.03742	-.03836	-.03801	-.03734	-.03663
5.260	24.539	.63754	.06639	-.02277	.55238	.32517	-.03480	-.03563	-.03812	-.03388	-.03397
5.260	28.700	.80435	.06507	-.03173	.67428	.44335	-.03392	-.03542	-.03696	-.03193	-.03321
5.260	32.668	.97185	.06518	-.04352	.78273	.57972	-.03341	-.03530	-.03666	-.03454	-.03251
5.260	36.778	1.15068	.06430	-.05727	.88318	.74040	-.03302	-.03399	-.03585	-.03227	-.03136
5.260	40.874	1.31701	.06196	-.07237	.95531	.90871	-.03058	-.03220	-.03447	-.03099	-.02953
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 21/ 0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.781	-.03616	.07774	-.02702	-.03856	.07657	-.01501	-.01632	-.01842	-.01228	-.01312
7.320	4.869	.01608	.07148	-.02142	.00995	.07258	-.01684	-.01641	-.01977	-.01390	-.01493
7.320	8.623	.09350	.0657?	-.01201	.08258	.07902	-.01732	-.01732	-.01985	-.01488	-.01559
7.320	12.749	.19064	.06256	-.00291	.17214	.10309	-.01721	-.01751	-.01977	-.01444	-.01559
7.320	16.787	.31000	.06073	.00229	.27925	.14768	-.01722	-.01769	-.01973	-.01460	-.01559
7.320	20.470	.42841	.06066	.00363	.38014	.20665	-.02005	-.01906	-.01770	-.01643	-.01695
7.320	24.524	.58416	.06130	.00326	.50602	.29824	-.01816	-.01769	-.01856	-.01359	-.01486
7.320	28.748	.75259	.06172	-.00226	.63014	.41608	-.01706	-.01751	-.01748	-.01420	-.01436
7.320	36.790	1.08936	.05989	-.01869	.83653	.70036	-.01245	-.01237	-.01324	-.01039	-.01014
7.320	40.902	1.25079	.05664	-.02942	.90830	.86179	-.00611	-.00595	-.00676	-.00515	-.00268
	GRADIENT	.01692	-.00203	.00181	.01571	-.00129	-.00059	-.00003	-.00043	-.00053	-.00058

AMES3.5-168 OA23 B22 C/ E23 F5 M4 R5 V7 W107 (RB6007) (13 SEP 73)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	.000
AILRON =	.000	BDFLAP =	.000
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 1/ 0 RN/L = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	.910	-.03034	.07776	-.02739	-.03291	.07671	-.00187	.00047	-.00892	.00901	.00260
10.290	5.018	.01677	.07041	-.02080	.01055	.07160	-.00192	.00004	-.00848	.00866	.00260
10.290	8.693	.08557	.06415	-.01209	.07489	.07635	-.00275	.00004	-.00828	.00928	.00348
10.290	12.716	.17972	.06119	-.00310	.16185	.09924	-.00334	.00004	-.00720	.00923	.00412
10.290	16.773	.29423	.06067	.00055	.26420	.14300	-.00334	.00029	-.00595	.00938	.00754
10.290	20.468	.40072	.05979	.00056	.35451	.19614	-.00769	-.00458	-.00399	.00309	.02499
10.290	24.502	.57061	.05910	.00052	.49472	.29042	-.00339	.00046	-.00375	.01128	.02078
10.290	28.641	.74270	.05686	-.00688	.62457	.40589	-.00275	.00025	-.00278	.01052	.02996
10.290	32.572	.90348	.06087	-.01503	.72861	.53768	-.00220	-.00017	-.00052	.00944	.04281
10.290	36.689	1.07453	.06495	-.03182	.82285	.69409	.00023	.00106	.00132	.00874	.03481
10.290	40.755	1.24432	.06341	-.04053	.90120	.86035	.00546	.00439	.00293	.00928	.03726
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (RB6008) (13 SEP 73)

REFERENCE DATA

SREF = 2990.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 12/ 0 RN/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	1.915	-.02649	.08521	-.02377	-.02932	.08428	-.03472	-.03691	-.04037	-.03442	-.03514
5.260	5.000	.03785	.07911	-.02187	.03081	.08211	-.03625	-.03618	-.04157	-.03368	-.03686
5.260	8.595	.12439	.07379	-.02055	.11197	.09155	-.03664	-.03783	-.04163	-.03575	-.03716
5.260	12.754	.23651	.07099	-.02129	.21300	.12145	-.03786	-.03798	-.04193	-.03654	-.03778
5.260	16.691	.36697	.07033	-.02997	.33131	.17276	-.03781	-.03808	-.04180	-.03663	-.03841
5.260	20.446	.50815	.07177	-.04413	.45107	.24476	-.04120	-.04127	-.04042	-.04048	-.03986
5.260	24.493	.65959	.07297	-.05067	.56998	.33985	-.03824	-.03868	-.04095	-.03639	-.03772
5.260	28.634	.83861	.07533	-.06762	.69994	.46799	-.03776	-.03833	-.03938	-.03645	-.03630
5.260	32.619	1.01001	.07834	-.08611	.80848	.61044	-.03691	-.03759	-.03819	-.03342	-.03496
5.260	36.752	1.19183	.07912	-.10458	.90758	.77653	-.03642	-.03687	-.03720	-.03435	-.03432
5.260	40.837	1.36537	.07813	-.12574	.98190	.95194	-.03456	-.03612	-.03658	-.03316	-.03309
	GRADIENT	.02085	-.00198	.00062	.01949	-.00070	-.00049	.00024	-.00039	.00024	-.00056

RUN NO. 20/ 0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.747	-.03389	.05616	-.02854	-.03558	.05510	-.01192	-.01415	-.01519	-.00982	-.01029
7.320	4.885	.02154	.05153	-.02281	.01707	.05318	-.01391	-.01461	-.01627	-.01167	-.01156
7.320	8.625	.09627	.04769	-.01488	.08803	.06159	-.01413	-.01506	-.01614	-.01069	-.01165
7.320	12.770	.20163	.04607	-.00975	.18646	.08950	-.01413	-.01520	-.01614	-.01155	-.01202
7.320	16.764	.32386	.04526	-.00953	.29704	.13675	-.01392	-.01511	-.01597	-.01044	-.01153
7.320	20.470	.00483	.00328	-.00099	.00338	.0 476	3.49292	3.46958	3.48598	3.45495	3.47146
7.320	24.657	.61371	.04880	-.02053	.53739	.30038	-.01418	-.01561	-.01532	-.01061	-.01165
7.320	28.773	.78791	.05086	-.03247	.66614	.42383	-.01355	-.01506	-.01467	-.01098	-.01063
7.320	32.743	.95578	.05267	-.04479	.77543	.56126	-.01319	-.01479	-.01338	-.00971	-.01031
7.320	36.896	1.13314	.05290	-.05956	.87444	.72260	-.00874	-.01089	-.00950	-.00387	-.00556
7.320	40.912	1.23986	.04913	-.07050	.90482	.84910	.02697	.02709	.02329	.02707	.03082
	GRADIENT	.01766	-.00147	.00183	.01678	-.00061	-.00063	-.00015	-.00034	-.00059	-.00041

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (RB6008) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 5/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.825	-.03368	.07768	-.02951	-.03614	.07656	.00285	-.00020	-.00590	.00862	.00359
10.290	4.940	.01679	.07051	-.02353	.01065	.07169	.00148	-.00135	-.00623	.00390	.00237
10.290	8.629	.08703	.06551	-.01584	.07621	.07782	.00091	-.00134	-.00598	.00395	.00192
10.290	12.765	.18929	.06211	-.01256	.17088	.10240	.00002	-.00178	-.00571	.00298	.00206
10.290	16.746	.31137	.05386	-.01397	.27977	.15087	-.00003	-.00182	-.00482	.00451	.00370
10.290	20.483	.43728	.06698	-.02213	.38620	.21576	-.00285	-.00419	-.00308	-.00056	-.00114
10.290	24.528	.59852	.07103	-.03204	.51502	.31309	-.00006	-.00163	-.00264	.00711	.00881
10.290	28.723	.77877	.07577	-.04656	.64654	.44070	.00082	-.00133	-.00155	.00842	.00715
10.290	32.589	.95132	.07903	-.05573	.75897	.57898	.00215	.00029	.00096	.00531	.00785
10.290	36.751	1.13065	.07952	-.07747	.85835	.74023	.00886	.00564	.00504	.00967	.01061
10.290	40.898	1.30542	.07951	-.09695	.93468	.91477	.01183	.01023	.00871	.00910	.01065
	GRADIENT	.01620	-.00230	.00192	.01502	-.00156	-.00044	-.00037	-.00010	-.00152	-.00039

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (RB6009) (13 SEP 73)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.6000 IN.	YMRP =	.0000 IN.		
BREF =	936.6600 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	15.000
AILRON =	.000	BDFLAP =	13.750
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 15/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	1.914	-.00982	.08706	-.03710	-.01252	.08669	-.03586	-.03936	-.04179	-.03415	-.03615
5.260	4.921	.05816	.08429	-.03951	.05072	.08897	-.03742	-.03799	-.04262	-.03495	-.03780
5.260	8.615	.15189	.07994	-.04510	.13820	.10179	-.03808	-.03978	-.04306	-.03588	-.03851
5.260	12.708	.27499	.08167	-.05733	.25029	.14017	-.03851	-.04008	-.04316	-.03734	-.03892
5.260	16.760	.41535	.08415	-.07427	.37344	.20035	-.03809	-.03979	-.04299	-.03770	-.03852
5.260	20.464	.55379	.08749	-.09265	.48826	.27559	-.04207	-.04213	-.04134	-.04125	-.04057
5.260	24.522	.72403	.09531	-.11549	.61917	.38721	-.03895	-.03941	-.04220	-.03723	-.03798
5.260	28.718	.90555	.10227	-.13966	.74502	.52481	-.03826	-.03994	-.04102	-.03602	-.03674
5.260	32.642	1.08151	.11008	-.16452	.85132	.67604	-.03792	-.03964	-.04003	-.03560	-.03554
5.260	36.798	1.26983	.11493	-.19012	.94798	.85265	-.03546	-.03766	-.03685	-.03166	-.03431
5.260	40.820	1.44283	.11752	-.21234	1.01505	1.03210	-.03029	-.03092	-.03001	-.02271	-.02528
	GRADIENT	.02254	-.00092	-.00080	.02103	.00076	-.00059	.00046	-.00027	-.00027	-.00055

RUN NO. 19/ 0 RN/L = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.796	-.00947	.08166	-.04000	-.01203	.08132	-.01199	-.01554	-.01964	-.00901	-.01288
7.320	5.069	.04695	.07665	-.03533	.04000	.08050	-.01364	-.01569	-.02042	-.01051	-.01413
7.320	8.614	.12480	.07374	-.03458	.11235	.09160	-.01359	-.01610	-.02042	-.01035	-.01413
7.320	12.705	.23973	.07489	-.03989	.21739	.12578	-.01357	-.01609	-.02042	-.00979	-.01411
7.320	16.755	.37772	.07900	-.05080	.33891	.18454	-.01339	-.01602	-.01949	-.01042	-.01409
7.320	20.485	.50546	.08241	-.06371	.44465	.25409	-.02067	-.01966	-.01913	-.01812	-.01680
7.320	24.515	.66893	.09172	-.08326	.58877	.36931	-.01455	-.01694	-.01914	-.00968	-.01313
7.320	28.671	.87106	.09943	-.10401	.71655	.50516	-.01450	-.01708	-.01911	-.00828	-.01303
7.320	32.599	1.04772	.10645	-.12542	.82531	.65414	-.01393	-.01626	-.01636	-.00887	-.01240
7.320	36.651	1.22992	.11135	-.14682	.92029	.82352	-.00939	-.01287	-.01217	-.00532	-.00690
7.320	40.846	3.01749	.26098	-.03059	2.11195	2.17095	.01567	.02410	.02795	.03342	.03160
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (R80009) (13 SEP 73)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 1076.4600 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
AILRON = .000 BDFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 4/ 0 RN/L = 1.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.849	-.01416	.07820	-.03608	-.01668	.07770	.00450	.00273	-.00974	.00956	.00308
10.290	4.945	.03789	.07227	-.03363	.03152	.07527	.00204	.00195	-.00974	.00683	.00181
10.290	8.638	.11741	.06991	-.03427	.10558	.08675	.00157	.00111	-.00938	.00669	.00133
10.290	12.700	.23147	.07055	-.04184	.21030	.11971	.00140	.00114	-.00804	.00745	.00135
10.290	16.758	.36739	.07300	-.05560	.33074	.17582	.00094	.00112	-.00728	.00731	.00203
10.290	20.466	.51100	.07806	-.07233	.45144	.25182	.00011	-.00016	-.00635	.00597	.00248
10.290	24.436	.67859	.08387	-.09464	.58309	.35709	.00004	-.00018	-.00511	.00568	.00476
10.290	28.583	.86547	.09056	-.11866	.71666	.49359	.00010	-.00017	-.00369	.00818	.00657
10.290	32.546	1.04222	.09031	-.14568	.82997	.63682	.00156	.00063	-.00136	.00870	.00591
10.290	36.692	1.22797	.09069	-.16970	.93047	.80645	.00737	.00378	.00234	.01081	.00928
10.290	40.709	1.40513	.12200	-.19599	.98556	1.00893	.01167	.01117	.00906	.01069	.01504
	GRADIENT	.01681	-.00191	.00079	.01556	-.00079	-.00079	-.00025	-.00000	-.00088	-.00041

AMES3.5-168 OA23 B22 C7 E23 F3 M4 R5 V7 W107 (RB609A) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
AILRON = .000 BDFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 15/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	1.914	-.00962	.08706	-.03710	-.01252	.08669	-.03566	-.03936	-.04179	-.03415	-.03615
5.260	4.921	.05816	.08429	-.03951	.05072	.08897	-.03742	-.03799	-.04262	-.03495	-.03780
5.260	8.615	.15189	.07994	-.04510	.13820	.10179	-.03808	-.03978	-.04308	-.03588	-.03851
5.260	12.708	.27499	.08167	-.05733	.25029	.14017	-.03851	-.04008	-.04316	-.03734	-.03892
5.260	16.760	.41535	.08415	-.07427	.37344	.20035	-.03809	-.03979	-.04299	-.03770	-.03852
5.260	20.464	.55379	.08749	-.09265	.48826	.27559	-.04207	-.04215	-.04134	-.04125	-.04057
5.260	24.522	.72403	.09531	-.11549	.61917	.38721	-.03895	-.03941	-.04220	-.03723	-.03798
5.260	28.718	.90555	.10227	-.13966	.74502	.52481	-.03826	-.03994	-.04102	-.03602	-.03674
5.260	32.642	1.08151	.11008	-.16452	.85132	.67604	-.03792	-.03964	-.04003	-.03560	-.03554
5.260	36.798	1.26983	.11493	-.19012	.94798	.85265	-.03646	-.03766	-.03685	-.03166	-.03431
5.260	40.820	1.44283	.11752	-.21234	1.01505	1.03210	-.03029	-.03092	-.03091	-.02271	-.02528
	GRADIENT	.02254	-.00092	-.00080	.02103	.00076	-.00059	.00046	-.00027	-.00027	-.00055

RUN NO. 23/ 0 RN/L = 2.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.768	-.01601	.08077	-.03843	-.01849	.08024	-.00973	-.01362	-.01677	-.01018	-.01071
7.320	4.849	.04227	.07588	-.03577	.03571	.07918	-.01193	-.01403	-.01729	-.01255	-.01235
7.320	8.603	.12503	.07189	-.03422	.11287	.08978	-.01193	-.01430	-.01703	-.01116	-.01243
7.320	12.785	.24273	.07309	-.04048	.22054	.12500	-.01194	-.01426	-.01678	-.01137	-.01231
7.320	16.785	.37971	.07722	-.05224	.34123	.18359	-.01100	-.01418	-.01631	-.01105	-.01195
7.320	20.456	.50790	.08212	-.06468	.44718	.25445	-.01731	-.01774	-.01756	-.01643	-.01443
7.320	24.552	.69230	.08955	-.08379	.59250	.36912	-.01194	-.01499	-.01562	-.00974	-.01092
7.320	28.693	.87506	.09784	-.10587	.72063	.50596	-.01196	-.01482	-.01477	-.00938	-.01086
7.320	32.709	1.05621	.10449	-.12767	.83226	.65868	-.01080	-.01363	-.01333	-.00774	-.01072
7.320	36.787	1.23738	.10831	-.14846	.92611	.82775	-.00410	-.00860	-.00774	-.00320	-.00287
	GRADIENT	.01891	-.00159	.00086	.01759	-.00034	-.00071	-.00013	-.00017	-.00077	-.00053

AMES3.5-168 OA23 B22 C7 E23 F3 M4 R5 V7 W207 (R8609A) (13 SEP 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.6000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	15.000
AILRON =	.000	BDFLAP =	13.750
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 4/ 0 RN/L = 1.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.849	-.01416	.07820	-.03608	-.01668	.07770	.00450	.00273	-.00974	.00956	.00308
10.290	4.945	.03789	.07227	-.03363	.03152	.07527	.00204	.00195	-.00974	.00683	.00181
10.290	8.638	.11741	.06991	-.03427	.10558	.08675	.00157	.00111	-.00938	.00669	.00133
10.290	12.700	.23147	.07055	-.04184	.21030	.11971	.00140	.00114	-.00804	.00745	.00135
10.290	16.758	.36739	.07303	-.05560	.33074	.17582	.00094	.00112	-.00728	.00731	.00203
10.290	20.468	.51100	.07806	-.07233	.45144	.25182	.00011	-.00016	-.00635	.00597	.00248
10.290	24.438	.67859	.08387	-.09464	.58309	.35709	.00004	-.00018	-.00511	.00568	.00476
10.290	28.583	.86547	.09056	-.11866	.71666	.49359	.00010	-.00017	-.00369	.00818	.00657
10.290	32.543	1.04222	.09031	-.14568	.82997	.63682	.00156	.00063	-.00136	.00870	.00591
10.290	36.692	1.22797	.09069	-.16970	.93047	.80645	.00737	.00378	.00234	.01081	.00928
10.290	40.709	1.40513	.12200	-.19599	.98556	1.00893	.01167	.01117	.00906	.01069	.01504
	GRADIENT	.01681	-.00191	.00079	.01556	-.00079	-.00079	-.00025	-.00000	-.00088	-.00041

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6010) (13 SEP 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1078.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0100 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	.000
AILRON =	.000	BOFLAP =	.000
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 55/ 0 RN/L = 2.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.280	12.240	.19751	.06740	-.01699	.17912	.10782	-.03499	-.03453	-.03719	-.03268	-.03392
5.280	15.296	.29277	.06614	-.02016	.26495	.14104	-.03536	-.03646	-.03765	-.03298	-.03426
5.280	18.454	.40458	.06423	-.02455	.36744	.18899	-.03584	-.03644	-.03782	-.03267	-.03492
5.280	23.093	.58362	.06402	-.03027	.51174	.28782	-.03534	-.03573	-.03766	-.03258	-.03424
5.280	27.026	.74706	.06310	-.03895	.63681	.39567	-.03416	-.03524	-.03595	-.03326	-.03424
5.280	30.751	.89360	.06115	-.05112	.73669	.50947	-.03662	-.03710	-.03576	-.03626	-.03681
5.280	34.762	1.08733	.06130	-.06107	.85831	.67032	-.03445	-.03471	-.03553	-.03399	-.03609
5.280	39.027	1.27169	.05939	-.07670	.95051	.84691	-.03333	-.03377	-.03484	-.03434	-.03628
5.280	42.894	1.43441	.05785	-.08942	1.01149	1.01871	-.03258	-.03354	-.03430	-.03541	-.03608
5.280	47.060	1.60209	.05530	-.10611	1.05091	1.21050	-.03071	-.03227	-.03368	-.03241	-.03387
5.280	51.086	1.75297	.05293	-.11903	1.05995	1.39722	-.02830	-.03123	-.03267	-.03162	-.03161
	GRADIENT	.04107	-.00034	-.00269	.02433	.03377	.00015	.00011	.00013	-.00001	.00001

RUN NO. 27/ 0 RN/L = 1.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.222	.16584	.06100	-.01266	.14917	.09472	-.01393	-.01465	-.01514	-.01188	-.01202
7.320	15.299	.24532	.05922	-.01410	.22100	.12185	-.01488	-.01570	-.01571	-.01131	-.01314
7.320	18.615	.36988	.05876	-.01031	.33177	.17376	-.01551	-.01552	-.01545	-.01250	-.01313
7.320	23.183	.52973	.05789	-.01071	.46416	.26175	-.01551	-.01488	-.01497	-.01168	-.01313
7.320	27.162	.68406	.05714	-.01413	.58254	.36311	-.01409	-.01359	-.01366	-.01139	-.01198
7.320	30.845	.81689	.05630	-.01826	.67248	.46717	-.01551	-.01474	-.01309	-.01283	-.01173
7.320	34.932	1.01486	.05663	-.02680	.79958	.62755	-.01235	-.01158	-.01235	-.01143	-.00942
7.320	39.093	1.19735	.05561	-.03487	.89422	.79818	-.01150	-.01020	-.01235	-.01179	-.00693
7.320	42.965	1.36401	.05421	-.05935	.96119	.96932	-.01076	-.00910	-.01065	-.01019	-.00446
7.320	47.143	1.52644	.05235	-.07411	.99987	1.15457	-.00802	-.00714	-.00969	-.00908	-.00109
7.320	51.147	1.68934	.05082	-.09798	1.02018	1.34747	-.00617	-.00677	-.00978	-.00858	.00173
	GRADIENT	.04005	-.00022	-.00208	.02397	.03259	.00021	.00024	.00017	.00007	.00037

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB0011) (13 SEP 73)

REFERENCE DATA

SREF =	2890.0000 SQ.FT.	XMRP =	1078.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6600 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0100 SCALE				

PARAMETRIC DATA

BETA =	000	ELEVON =	.000
AILRON =	.000	BUFLAP =	15.750
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 52/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	12.300	.20773	.07046	-.02485	.18795	.11309	-.03475	-.03402	-.03843	-.03012	-.03540
5.260	15.346	.30917	.06971	-.03050	.27970	.14905	-.03511	-.03551	-.03952	-.03128	-.03542
5.260	18.622	.42569	.06921	-.03977	.38130	.20152	-.03560	-.03579	-.03851	-.03458	-.03633
5.260	23.082	.60437	.07060	-.05449	.52831	.30189	-.03478	-.03581	-.03842	-.03407	-.03476
5.260	27.001	.77814	.07208	-.07007	.66060	.41750	-.03317	-.03478	-.03671	-.03062	-.03556
5.260	30.744	.94148	.06971	-.08910	.77354	.54119	-.03672	-.03722	-.03660	-.03846	-.03699
5.260	34.758	1.13279	.07351	-.10729	.88876	.70621	-.03296	-.03364	-.03576	-.03464	-.03546
5.260	38.976	1.32662	.07340	-.12614	.98517	.89149	-.03227	-.03326	-.03534	-.03602	-.03432
5.260	42.760	1.50102	.07353	-.14351	1.05213	1.07308	-.02967	-.03255	-.03431	-.03525	-.03275
5.260	47.005	1.67792	.07248	-.16572	1.09122	1.27668	-.02905	-.03091	-.03296	-.03284	-.02957
5.260	50.899	1.83315	.07155	-.18099	1.10061	1.46772	-.02800	-.02999	-.03230	-.03387	-.02805
	GRADIENT	.04320	.00009	-.00421	.02534	.03573	.00019	.00013	.00017	-.00008	.00017

RUN NO. 28/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.186	.17171	.06145	-.01840	.15487	.09631	-.01517	-.01665	-.01653	-.01376	-.01422
7.320	15.248	.26894	.06073	-.01879	.24350	.12933	-.01653	-.01742	-.01700	-.01466	-.01442
7.320	18.597	.37918	.06003	-.02048	.34024	.17702	-.01673	-.01765	-.01665	-.01424	-.01421
7.320	23.166	.55597	.06076	-.02623	.48724	.27457	-.01669	-.01734	-.01606	-.01385	-.01439
7.320	27.061	.71411	.06239	-.03295	.60755	.38044	-.01606	-.01593	-.01489	-.01365	-.01422
7.320	30.861	.86232	.06322	-.04291	.70780	.49660	-.01639	-.01730	-.01395	-.01546	-.01424
7.320	34.944	1.06172	.06528	-.05872	.83291	.66164	-.01339	-.01347	-.01393	-.01147	-.01151
7.320	38.965	1.24606	.06650	-.07648	.92830	.83686	-.01276	-.01320	-.01393	-.01180	-.01053
7.320	43.032	1.41964	.06765	-.09528	.99155	1.01823	-.01120	-.01107	-.01394	-.01054	-.00809
7.320	47.091	1.59708	.06782	-.11351	1.03087	1.20861	-.00963	-.00839	-.01130	-.00817	-.00453
7.320	51.150	1.74613	.06831	-.13277	1.04212	1.40272	-.00649	-.00785	-.00932	-.00482	-.00079
	GRADIENT	.04141	.00023	-.00301	.02442	.03408	.00023	.00026	.00017	.00020	.00033

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N9 R5 V7 W107 (RB0012) (13 SEP 73)

REFERENCE DATA

SREF =	2890.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.6000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0100 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	.000
AILRON =	.000	BDFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 56/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	12.267	.19894	.06806	-.01399	.17994	.10878	-.03274	-.03344	-.03699	-.03088	-.03309
5.260	15.294	.29475	.06590	-.01440	.26693	.14131	-.03384	-.03464	-.03745	-.03074	-.03375
5.260	18.513	.40549	.06401	-.01729	.36418	.18945	-.03513	-.03554	-.03852	-.03318	-.03480
5.260	23.068	.58145	.06391	-.02112	.50992	.28663	-.03318	-.03616	-.03865	-.03236	-.03439
5.260	27.032	.74510	.06382	-.02453	.63470	.39548	-.03440	-.03541	-.03780	-.03231	-.03428
5.260	30.731	.89649	.06259	-.02246	.73861	.51192	-.03792	-.03767	-.03707	-.03734	-.03761
5.260	34.606	1.08885	.06171	-.03995	.85882	.67218	-.03380	-.03475	-.03656	-.03173	-.03437
5.260	38.951	1.27252	.05893	-.04977	.95257	.84581	-.03304	-.03372	-.03577	-.03297	-.03380
5.260	42.829	1.43914	.05668	-.06190	1.01692	1.01991	-.03247	-.03326	-.03544	-.03385	-.03373
5.260	47.061	1.60610	.05369	-.07242	1.05480	1.21237	-.03131	-.03252	-.03435	-.03323	-.03245
5.260	51.029	1.75445	.05032	-.07975	1.06430	1.39567	-.02911	-.03231	-.03329	-.02971	-.03110
	GRADIENT	.04122	-.00040	-.00178	.02449	.03383	.00010	.00006	.00011	-.00001	.00005

RUN NO. 29/ 0 RN/L = 1.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.205	.17002	.06040	-.01082	.15341	.09498	-.01435	-.01541	-.01502	-.01379	-.01352
7.320	15.250	.25426	.05921	-.00811	.22974	.12400	-.01552	-.01669	-.01615	-.01530	-.01412
7.320	18.551	.36274	.05811	-.00673	.32540	.17049	-.01593	-.01668	-.01614	-.01463	-.01403
7.320	23.155	.53058	.05748	-.00313	.46524	.26148	-.01587	-.01700	-.01579	-.01324	-.01350
7.320	27.161	.68700	.05709	-.00391	.58518	.36441	-.01536	-.01638	-.01490	-.01470	-.01476
7.320	30.839	.82865	.05652	-.00661	.68251	.47332	-.01683	-.01686	-.01384	-.01560	-.01512
7.320	34.953	1.01582	.05625	-.01448	.80036	.62807	-.01399	-.01453	-.01348	-.01273	-.01341
7.320	39.154	1.20036	.05415	-.02575	.89664	.79990	-.01276	-.01370	-.01221	-.01166	-.01221
7.320	43.071	1.36143	.05269	-.03630	.95855	.96823	-.01216	-.01300	-.01133	-.01067	-.01069
7.320	51.133	1.68347	.04792	-.06150	1.01908	1.34084	-.00725	-.01226	-.00967	-.00759	-.00858
	GRADIENT	.03962	-.00027	-.00121	.02415	.03177	.00017	.00011	.00016	.00016	.00012

AMES3.9-168 OA23 B19 C7 E23 F3 H4 N8 R3 V7 W107 (RB8013) (13 SEP 73)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1078.4800 IN.		
LREF =	474.6000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0100 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	10.000
AILRON =	.000	BDFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 30/ 0 RN/L = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.128	.16368	.06467	-.03092	.14663	.09786	-.01550	-.01503	-.01393	-.01108	-.01206
7.320	15.255	.25971	.06446	-.03380	.23360	.13052	-.01478	-.01557	-.01501	-.01170	-.01210
7.320	18.477	.37163	.06490	-.03817	.33190	.17933	-.01497	-.01580	-.01519	-.01379	-.01235
7.320	23.141	.55119	.06728	-.04382	.48040	.27849	-.01497	-.01635	-.01502	-.01338	-.01232
7.320	27.152	.72207	.06878	-.05261	.61111	.39072	-.01478	-.01557	-.01389	-.01284	-.01379
7.320	30.820	.86409	.07064	-.05806	.70587	.50336	-.01607	-.01662	-.01302	-.01457	-.01469
7.320	34.806	1.06359	.07391	-.07359	.83112	.69778	-.01435	-.01499	-.01260	-.01224	-.01336
7.320	39.076	1.25473	.07635	-.08807	.92594	.85019	-.01277	-.01417	-.01129	-.01166	-.01330
7.320	42.980	1.42170	.07854	-.10235	.98653	1.02670	-.01146	-.01363	-.00939	-.01093	-.01207
7.320	47.110	1.59680	.07964	-.11860	1.02843	1.22411	-.00968	-.01226	-.00740	-.00892	-.01207
7.320	51.158	1.75805	.08093	-.13739	1.03832	1.41851	-.00916	-.01090	-.00455	-.00749	-.00888
	GRADIENT	.04184	.00047	-.00271	.02454	.03442	.00013	.00011	.00024	.00010	.00004

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB8015) (13 SEP 73)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.8700 IN. YMRP = .0000 IN.
BREF = 936.6860 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
AILRON = .000 BDFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 31/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	12.250	.23656	.07592	-.04653	.21507	.12439	-.03327	-.03379	-.03488	-.03167	-.03347
5.260	15.347	.34337	.07729	-.05907	.31067	.16541	-.03331	-.03434	-.03475	-.03194	-.03387
5.260	18.579	.46728	.07927	-.07423	.41767	.22402	-.03306	-.03400	-.03447	-.03177	-.03388
5.260	23.092	.65642	.08399	-.09511	.57094	.33462	-.03295	-.03379	-.03417	-.03124	-.03315
5.260	27.034	.84001	.08853	-.11901	.70799	.46066	-.03187	-.03386	-.03349	-.03281	-.03481
5.260	30.755	.99766	.08768	-.13386	.81252	.58552	-.03586	-.03688	-.03350	-.03600	-.03720
5.260	34.814	1.21558	.09704	-.16481	.94260	.77367	-.03302	-.03324	-.03354	-.03301	-.03657
5.260	38.992	1.41522	.10074	-.18867	1.03658	.96876	-.03205	-.03312	-.03293	-.03307	-.03647
5.260	42.927	1 59205	.10302	-.20915	1.09557	1.15972	-.03151	-.03246	-.03247	-.03396	-.03583
5.260	47.091	1.7*885	.10529	-.23069	1.12719	1.36725	-.03049	-.03118	-.03115	-.03362	-.03402
5.260	51.131	1.94677	.10661	-.26277	1.13852	1.58275	-.02925	-.03156	-.03153	-.03111	-.03228
	GRADIENT	.04501	.00088	-.00555	.02545	.03813	.00009	.00007	.00009	-.00003	-.00002

RUN NO. 32/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.115	.18597	.06745	-.03472	.16767	.10498	-.00973	-.01197	-.01357	-.00825	-.00962
7.320	15.203	.28198	.06744	-.04167	.25442	.13903	-.01111	-.01229	-.01405	-.00837	-.01070
7.320	18.440	.39987	.06836	-.04890	.35771	.19133	-.01142	-.01229	-.01379	-.00760	-.01087
7.320	23.066	.57940	.07255	-.06202	.50466	.29376	-.01116	-.01220	-.01299	-.00779	-.00986
7.320	27.009	.75158	.07600	-.07708	.63510	.40902	-.01068	-.01150	-.01220	-.00837	-.01086
7.320	30.904	.91378	.07741	-.09580	.74172	.53420	-.01225	-.01287	-.01086	-.01116	-.01097
7.320	34.780	1.10157	.08391	-.11358	.85691	.69728	-.00923	-.01062	-.01087	-.00704	-.00961
7.320	38.946	1.29145	.08953	-.13679	.94813	.88143	-.00907	-.00997	-.00955	-.00691	-.00835
7.320	42.870	1.46615	.09314	-.16049	1.01117	1.06574	-.00747	-.00825	-.00796	-.00711	-.00665
7.320	47.018	1.63993	.09637	-.18382	1.04755	1.26543	-.00588	-.00802	-.00633	-.00480	-.00552
7.320	51.064	1.79938	.09825	-.20862	1.05439	1.46140	-.00364	-.00589	-.00426	-.00265	-.00301
	GRADIENT	.04251	.00089	-.00452	.02449	.03547	.00016	.00015	.00024	.00011	.00016

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6016) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 33/ 0 RN/L = 1.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.105	.14620	.07140	-.00052	.12798	.10047	-.01558	-.01647	-.01895	-.01315	-.01428
7.320	15.164	.23579	.06845	-.00107	.20967	.12774	-.01616	-.01729	-.01921	-.01361	-.01448
7.320	18.451	.34040	.06870	.00157	.30179	.17101	-.01653	-.01729	-.01895	-.01385	-.01452
7.320	23.063	.50020	.06766	.00397	.43372	.25820	-.01558	-.01646	-.01769	-.01265	-.01501
7.320	26.991	.65228	.06884	.00420	.54999	.35750	-.01489	-.01563	-.01686	-.01286	-.01435
7.320	30.898	-.00052	-.00028	.00324	-.00030	-.00051	4.46846	4.43977	4.42590	4.40163	4.39470
7.320	34.872	.96844	.07205	-.00092	.75335	.61281	-.01241	-.01371	-.01393	-.00782	-.01055
7.320	38.978	1.13821	.07302	-.00515	.83690	.77273	-.01082	-.01297	-.01328	-.00550	-.00733
7.320	42.953	1.29375	.07279	-.01012	.89731	.93484	-.00807	-.01233	-.01240	-.00195	-.00419
7.320	47.068	1.44829	.07206	-.01399	.93371	1.10946	-.00511	-.01077	-.01122	.00256	.00060
7.320	51.160	1.58913	.07173	-.02075	.94076	1.28276	-.00353	-.01146	-.01109	.00541	.00432
	GRADIENT	.03798	.00012	-.00049	.02239	.03091	-.00010	-.00025	-.00019	.00007	.00005

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6017) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000

RUN NO. 34/ 0 RN/L = 1.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.151	.13209	.07063	.00496	.11427	.09685	-.01345	-.01528	-.01680	-.01191	-.01305
7.320	15.272	.21853	.06724	.00998	.19310	.12243	-.01440	-.01546	-.01678	-.01117	-.01313
7.320	18.536	.32420	.06501	.01339	.28670	.16471	-.01440	-.01527	-.01680	-.01199	-.01305
7.320	23.184	.48219	.06367	.02117	.41827	.24821	-.01297	-.01431	-.01529	-.01186	-.01304
7.320	27.155	.63294	.06367	.02697	.53411	.34553	-.01281	-.01389	-.01406	-.01108	-.01304
7.320	31.011	.77515	.06181	.03167	.63251	.45234	-.01442	-.01442	-.01264	-.01506	-.01302
7.320	34.957	.94385	.06298	.03270	.73748	.59241	-.01111	-.01251	-.01248	-.00814	-.01030
7.320	39.150	1.11003	.06229	.03249	.82150	.74912	-.00963	-.01140	-.01136	-.00728	-.00815
7.320	43.035	1.25869	.05966	.02823	.87931	.90259	-.00688	-.01112	-.01002	-.00257	-.00483
7.320	47.128	1.41374	.05788	.02702	.91945	1.07347	-.00396	-.00973	-.00835	.00067	-.00064
7.320	51.248	1.55073	.05493	.02391	.92784	1.24373	-.00184	-.00955	-.00629	.00781	.00438
	GRADIENT	.03727	-.00031	.00053	.02234	.02942	.00030	.00016	.00026	.00043	.00040

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6018) (13 SEP 73)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 938.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 33/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	12.357	.15337	.08061	.01238	.13257	.11157	-.03376	-.03396	-.03973	-.02949	-.03484
5.260	15.383	.24574	.07608	.01359	.21676	.13854	-.03545	-.03585	-.04060	-.03267	-.03593
5.260	18.408	.35542	.07205	.01478	.31385	.18169	-.03605	-.03733	-.04135	-.03264	-.03654
5.260	23.193	.52337	.06952	.01760	.45369	.27002	-.03545	-.03693	-.04027	-.03278	-.03590
5.260	27.190	.67711	.06835	.01932	.57106	.37020	-.03460	-.03578	-.03875	-.03212	-.03590
5.260	30.835	.83467	.06592	.01655	.68289	.48443	-.03833	-.03867	-.03840	-.03646	-.03840
5.260	34.878	.99517	.06541	.01938	.77903	.62271	-.03435	-.03553	-.03781	-.03067	-.03457
5.260	39.036	1.16978	.06261	.01856	.86919	.78538	-.03220	-.03516	-.03639	-.02665	-.03132
5.260	43.015	1.32426	.05919	.01771	.92788	.94669	-.02957	-.03360	-.03502	-.02316	-.02739
5.260	47.068	1.47606	.05572	.01672	.96460	1.11866	-.02538	-.03223	-.03350	-.01706	-.02190
5.260	51.183	1.61812	.05202	.01536	.97377	1.29337	-.02236	-.03377	-.03294	-.01111	-.01676
	GRADIENT	.03869	-.00064	.00007	.02318	.03105	.00029	.00007	.00021	.00046	.00043

RUN NO. 35/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.075	.13048	.07049	.00781	.11285	.09623	-.01353	-.01509	-.01634	-.01221	-.01301
7.320	15.152	.21918	.06640	.01219	.19421	.12138	-.01485	-.01652	-.01752	-.01237	-.01301
7.320	18.327	.32030	.06477	.01815	.28368	.16220	-.01505	-.01661	-.01752	-.01204	-.01321
7.320	23.040	.47523	.06321	.02837	.41259	.24416	-.01468	-.01647	-.01603	-.01179	-.01301
7.320	27.086	.62313	.06224	.03579	.52644	.35914	-.01358	-.01523	-.01489	-.01122	-.01301
7.320	30.934	.76363	.06201	.04166	.62313	.44374	-.01526	-.01646	-.01357	-.01387	-.01345
7.320	34.839	.92148	.06223	.04818	.72077	.57749	-.01225	-.01453	-.01357	-.01019	-.01175
7.320	39.008	1.08738	.06051	.04912	.80687	.73[illegible]	-.01070	-.01351	-.01356	-.00858	-.00926
7.320	43.000	1.23512	.05786	.05124	.86386	.88406	-.00848	-.01231	-.01224	-.00685	-.00606
7.320	47.106	1.38599	.05516	.05033	.90296	1.05294	-.00529	-.01005	-.00978	-.00298	-.00128
7.320	51.213	1.52404	.05264	.04743	.91366	1.22094	-.00174	-.00968	-.00776	.00327	.00370
	GRADIENT	.03640	-.00037	.00115	.02182	.02921	.00029	.00017	.00022	.00032	.00037

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (R8618A) (13 SEP 73)

REFERENCE DATA

SREF =	2980.0000 SQ.FT.	XMRP =	1078.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6600 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0100 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	-40.000
AILRON =	.000	BDFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 53/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	12.357	.15337	.08061	.01238	.13257	.11157	-.03378	-.03398	-.03973	-.02949	-.03484
5.260	15.383	.24574	.07608	.01359	.21676	.13854	-.03545	-.03585	-.04060	-.03267	-.03599
5.260	18.408	.33542	.07205	.01478	.31385	.18169	-.03605	-.03733	-.04135	-.03264	-.03654
5.260	23.193	.52337	.06952	.01760	.45369	.27002	-.03545	-.03693	-.04027	-.03278	-.03590
5.260	27.190	.67711	.06835	.01932	.57106	.37020	-.03460	-.03578	-.03875	-.03212	-.03590
5.260	30.835	.83467	.06592	.01655	.68289	.48443	-.03833	-.03867	-.03840	-.03646	-.03840
5.260	34.876	.99517	.06541	.01938	.77903	.62271	-.03435	-.03553	-.03781	-.03067	-.03457
5.260	39.036	1.16978	.06261	.01856	.88919	.78538	-.03220	-.03516	-.03639	-.02665	-.03132
5.260	43.015	1.32426	.05919	.01571	.92788	.94669	-.02957	-.03360	-.03502	-.02316	-.02739
5.260	47.068	1.47606	.05572	.01672	.96460	1.11866	-.02538	-.03223	-.03350	-.01706	-.02190
5.260	51.183	1.61812	.05202	.01536	.97377	1.29337	-.02236	-.03377	-.03294	-.01111	-.01676
	GRADIENT	.03869	-.00064	.00007	.02318	.03105	.00029	.00007	.00021	.00046	.00043

RUN NO. 36/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	22.139	.43087	.06322	.02169	.37528	.22093	-.01251	-.01377	-.01464	-.00898	-.01070
7.320	25.283	.54637	.06282	.02784	.46721	.29015	-.01340	-.01387	-.01391	-.00976	-.01169
7.320	28.981	.69232	.06187	.03449	.57565	.38957	-.01188	-.01273	-.01257	-.00853	-.00972
7.320	33.202	.85345	.06057	.04035	.68094	.51803	-.01407	-.01399	-.01077	-.01092	-.01043
7.320	37.204	1.03055	.06161	.04228	.75356	.67220	-.01094	-.01210	-.01019	-.00682	-.00563
7.320	40.999	1.18501	.05957	.04383	.85528	.82237	-.00812	-.00992	-.00816	-.00274	-.00207
7.320	44.987	1.34453	.05681	.04448	.91077	.99070	-.00518	-.00878	-.00539	.00042	.00293
7.320	49.133	1.49951	.05325	.04498	.94087	1.16882	-.00307	-.00904	-.00130	.00538	.00922
7.320	53.184	1.63186	.04943	.04487	.93832	1.33603	.00005	-.01074	.00330	.01123	.01483
7.320	56.103	1.71644	.04781	.04610	.91776	1.45126	-.00008	-.01291	.00485	.01328	.01537
7.320	58.301	1.76309	.04748	.05681	.88604	1.52502	.00258	-.01209	.00778	.01613	.01961
	GRADIENT	.03796	-.00047	.00069	.01481	.03753	.00046	.00008	.00062	.00076	.00091

AMES3.5-16G OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6019) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.8800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -30.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 37/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.055	.14266	.06459	.00459	.12802	.09296	-.01279	-.01468	-.01353	-.01005	-.01106
7.320	15.154	.22652	.06216	.00977	.20239	.11921	-.01353	-.01505	-.01436	-.00972	-.01168
7.320	18.400	.32720	.06053	.01649	.29137	.16072	-.01389	-.01482	-.01435	-.01075	-.01131
7.320	23.049	.48285	.06027	.02636	.42071	.24450	-.01305	-.01468	-.01305	-.01021	-.01114
7.320	27.022	.62734	.05974	.03532	.53171	.33824	-.01199	-.01331	-.01198	-.00951	-.01229
7.320	30.707	.75627	.05909	.03997	.62006	.43699	-.01434	-.01406	-.01171	-.01286	-.01350
7.320	34.795	.92841	.05840	.04357	.72909	.57775	-.01120	-.01207	-.01078	-.00823	-.01060
7.320	38.989	1.09226	.05646	.04579	.81346	.73110	-.00961	-.01193	-.01025	-.00543	-.00775
7.320	42.928	1.24614	.05371	.04455	.87586	.88804	-.00760	-.01064	-.00911	-.00279	-.00399
7.320	47.024	1.39521	.04990	.04259	.91459	1.05481	-.00460	-.01019	-.00798	-.00019	.00009
7.320	51.099	1.53649	.04601	.04006	.92907	1.22464	-.00327	-.00831	-.00728	.00739	.00504
	GRADIENT	.03655	-.00039	.00100	.02198	.02945	.00025	.00016	.00018	.00037	.00037

AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 W107 (RB6020) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6900 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 54/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.280	12.304	.17820	.06954	.00184	.15733	.10549	-.03273	-.03357	-.03656	-.03149	-.03340
5.280	15.326	.26732	.06771	.00367	.23992	.13596	-.03476	-.03574	-.03842	-.03256	-.03478
5.280	18.650	.37370	.06381	.00514	.33367	.17996	-.03489	-.03630	-.03865	-.03263	-.03480
5.280	23.178	.54004	.06231	.00772	.47248	.27007	-.03473	-.03572	-.03831	-.03034	-.03343
5.280	27.134	.69650	.06035	.00750	.59232	.37136	-.03360	-.03576	-.03725	-.03155	-.03377
5.280	30.803	.84109	.05748	.00573	.69301	.48008	-.03739	-.03803	-.03602	-.03586	-.03688
5.280	34.823	1.02241	.05653	.00354	.80703	.63025	-.03477	-.03507	-.03836	-.03403	-.03453
5.280	39.025	1.19370	.05276	-.00117	.89413	.79261	-.03236	-.03429	-.03724	-.03288	-.03241
5.280	42.922	1.35228	.04821	-.00414	.95742	.95620	-.03092	-.03283	-.03549	-.03149	-.02985
5.280	47.034	1.51129	.04290	-.01005	.99865	1.13515	-.02803	-.03093	-.03454	-.02852	-.02886
5.280	51.120	1.65957	.03857	-.01329	1.01167	1.31613	-.02482	-.02929	-.03387	-.02473	-.02688
	GRADIENT	.03919	-.00075	-.00042	.02358	.03171	.00019	.00013	.00009	.00011	.00017

RUN NO. 38/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.033	.14683	.06277	-.00073	.13052	.09200	-.01237	-.01409	-.01445	-.01050	-.01188
7.320	15.099	.23197	.06082	.00483	.20812	.11915	-.01349	-.01525	-.01534	-.01101	-.01198
7.320	18.326	.33037	.05993	.01116	.29477	.16076	-.01370	-.01520	-.01534	-.01035	-.01190
7.320	23.030	.48645	.05866	.02093	.42473	.24429	-.01321	-.01469	-.01411	-.01025	-.01188
7.320	27.036	.63123	.05748	.02914	.53613	.33813	-.01319	-.01362	-.01344	-.01093	-.01309
7.320	30.703	.76451	.05579	.03302	.62885	.43632	-.01477	-.01490	-.01270	-.01376	-.01359
7.320	34.784	.93937	.05516	.03579	.74004	.58119	-.01174	-.01268	-.01255	-.01034	-.01188
7.320	38.997	1.10432	.05194	.03372	.82557	.73530	-.01034	-.01173	-.01138	-.00976	-.01045
7.320	42.945	1.26097	.04840	.03181	.89007	.89452	-.00850	-.01073	-.01090	-.00756	-.00824
7.320	47.039	1.41703	.04356	.02764	.93383	1.06670	-.00576	-.00999	-.00947	-.00692	-.00661
7.320	51.119	1.55736	.03932	.02298	.94696	1.23701	-.00372	-.00741	-.00888	-.00502	-.00446
	GRADIENT	.03696	-.00054	.00069	.02234	.02974	.00022	.00017	.00016	.00012	.00017

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6021) (13 SEP 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 39/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.096	.15298	.06042	-.00239	.13693	.09113	-.01634	-.01762	-.01669	-.01499	-.01472
7.320	15.167	.23911	.05937	.00160	.21524	.11986	-.01781	-.01917	-.01799	-.01413	-.01521
7.320	18.375	.33693	.05821	.00678	.30141	.16145	-.01870	-.01917	-.01799	-.01450	-.01521
7.320	23.015	.49429	.05641	.01480	.43289	.24518	-.01781	-.01917	-.01772	-.01371	-.01484
7.320	27.028	.64452	.05546	.01947	.54893	.34229	-.01754	-.01830	-.01668	-.01449	-.01648
7.320	30.739	.78629	.05393	.02216	.64825	.44825	-.01873	-.01915	-.01665	-.01454	-.01716
7.320	34.806	.95837	.05303	.01840	.75664	.59058	-.01648	-.01779	-.01667	-.01481	-.01610
7.320	39.016	1.13283	.04976	.01322	.84886	.75182	-.01532	-.0169	-.01598	-.01387	-.01544
7.320	42.965	1.29458	.04672	.00662	.91549	.91651	-.01300	-.01505	-.01537	-.01263	-.01346
7.320	47.065	1.45134	.04293	-.00350	.95731	1.09196	-.01237	-.01381	-.01297	-.01090	-.01112
7.320	51.117	1.60279	.03933	-.00966	.97550	1.27235	-.00826	-.01367	-.01171	-.00814	-.00778
	GRADIENT	.03601	-.00051	-.00015	.02298	.03065	.00020	.00014	.00013	.00012	.00013

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6022) (13 SEP 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = -10.000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 40/ 0 RN/L = 1.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.071	.16447	.06349	-.01363	.14756	.09648	-.01532	-.01595	-.01601	-.01224	-.01282
7.320	15.164	.25543	.06206	-.01435	.23030	.12672	-.01669	-.01732	-.01714	-.01269	-.01331
7.320	18.336	.36087	.06230	-.01265	.32294	.17268	-.01648	-.01737	-.01661	-.01306	-.01327
7.320	23.077	.52487	.06237	-.01173	.45842	.26311	-.01632	-.01741	-.01652	-.01290	-.01298
7.320	27.101	.68196	.06282	-.01305	.57848	.36661	-.01600	-.01654	-.01543	-.01330	-.01528
7.320	30.713	.82527	.06309	-.01720	.67730	.47573	-.01751	-.01739	-.01484	-.01567	-.01555
7.320	34.799	1.00757	.06378	-.02556	.79097	.62740	-.01552	-.01589	-.01469	-.01231	-.01453
7.320	38.986	1.18771	.06309	-.03565	.88351	.79627	-.01394	-.01553	-.01469	-.01334	-.01367
7.320	42.941	1.35124	.06265	-.04658	.94651	.96638	-.01394	-.01374	-.01338	-.01198	-.01280
7.320	47.029	1.52049	.06071	-.06069	.99200	1.15392	-.01256	-.01314	-.01198	-.00979	-.00966
7.320	51.120	1.67045	.05928	-.07445	1.00239	1.33759	-.01103	-.01209	-.01075	-.00665	-.00660
	GRADIENT	.03951	-.00005	-.00151	.02347	.03227	.00012	.00012	.00014	.00010	.00011

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6023) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 57/ 0 RN/L = 2.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	12.334	.19780	.06719	-.01416	.17888	.10789	-.03383	-.03366	-.03614	-.03284	-.03386
5.260	15.373	.29104	.06517	-.01435	.26335	.13999	-.03556	-.03559	-.03808	-.03363	-.03571
5.260	18.364	.39861	.06368	-.01558	.35726	.18790	-.03586	-.03596	-.03849	-.03506	-.03714
5.260	23.245	.58080	.06366	-.02091	.50852	.28772	-.03629	-.03676	-.03813	-.03536	-.03810
5.260	27.180	.74404	.06364	-.02554	.63281	.39648	-.03640	-.03723	-.03838	-.03657	-.03909
5.260	30.805	.89325	.06135	-.02806	.73581	.51014	-.03703	-.03692	-.03678	-.03730	-.03833
5.260	31.027	.90909	.06231	-.03190	.74691	.52197	-.03472	-.03555	-.03739	-.03568	-.03778
5.260	34.943	1.08252	.06084	-.04116	.85251	.66990	-.03377	-.03551	-.03737	-.03430	-.03644
5.260	39.122	1.26399	.05890	-.05149	.94345	.84323	-.03243	-.03552	-.03738	-.03361	-.03570
5.260	43.096	1.42685	.05606	-.06061	1.00360	1.01579	-.03126	-.03359	-.03739	-.03480	-.03448
5.260	47.200	1.59329	.05318	-.07041	1.04353	1.20518	-.02878	-.03069	-.03458	-.03440	-.03122
5.260	51.219	1.73619	.05082	-.07614	1.04783	1.38527	-.02685	-.02996	-.03461	-.03136	-.02855
	GRADIENT	.04075	-.00033	-.00173	.02408	.03354	.00020	.00012	.00007	.00003	.00014

RUN NO. 43/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.191	.15937	.06425	-.01131	.14221	.09645	-.01398	-.01478	-.01607	-.01161	-.01244
7.320	15.308	.24924	.06226	-.00844	.22397	.12585	-.01493	-.01648	-.01752	-.01252	-.01356
7.320	18.635	.35638	.06065	-.00792	.31832	.17134	-.01556	-.01740	-.01831	-.01351	-.01480
7.320	23.236	.52420	.05983	-.00592	.45808	.26179	-.01573	-.01704	-.01832	-.01401	-.01530
7.320	27.216	.67673	.06024	-.00553	.57427	.36306	-.01461	-.01652	-.01831	-.01400	-.01480
7.320	30.688	.81377	.05806	-.00818	.66855	.46758	-.01716	-.01773	-.01577	-.01678	-.01527
7.320	34.904	.99593	.05876	-.01441	.78315	.61807	-.01412	-.01601	-.01580	-.01147	-.01230
7.320	39.136	1.17823	.05685	-.02518	.87798	.78778	-.01274	-.01462	-.01567	-.01176	-.00989
7.320	43.087	1.34588	.05414	-.03735	.94595	.95891	-.01040	-.01241	-.01324	-.01175	-.00676
7.320	47.194	1.51420	.05137	-.05203	.99124	1.14581	-.00759	-.01046	-.01179	-.00939	-.00339
7.320	51.336	1.66468	.04785	-.06451	1.00265	1.32972	-.00440	-.00825	-.00981	-.00868	.00143
	GRADIENT	.03944	-.00035	-.00133	.02357	.03202	.00023	.00018	.00019	.00009	.00034

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (R86026) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = -10.000

RUN NO. 44/ 0 RN/L = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	2.448	-.04080	.07886	-.02585	-.04413	.07705	-.01212	-.01310	-.01266	-.01028	-.00971
7.320	5.515	.00989	.07346	-.01868	.00279	.07407	-.01446	-.01471	-.01479	-.01063	-.01204
7.320	9.291	.08698	.06749	-.01228	.07492	.08065	-.01470	-.01487	-.01482	-.01192	-.01201
7.320	13.480	.18930	.06247	-.00642	.16956	.10482	-.01526	-.01619	-.01547	-.01338	-.01266
7.320	17.401	.30709	.06055	-.00370	.27493	.14962	-.01579	-.01638	-.01565	-.01347	-.01258
7.320	21.137	.42878	.05852	-.00048	.37881	.20920	-.01765	-.01666	-.01483	-.01499	-.01389
7.320	25.205	.57840	.05885	-.00020	.49826	.29957	-.01604	-.01663	-.01532	-.01245	-.01258
7.320	29.416	.74201	.05916	-.00066	.61730	.41597	-.01611	-.01628	-.01487	-.01269	-.01381
7.320	33.275	.89708	.05776	-.00682	.71831	.54048	-.01535	-.01626	-.01479	-.01347	-.01327
7.320	37.439	1.06810	.05678	-.01495	.81356	.69440	-.01452	-.01532	-.01356	-.01379	-.01212
7.320	41.531	1.23173	.05583	-.02458	.88504	.85847	-.01302	-.01371	-.01251	-.01263	-.01097
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (R86027) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 85.000 RUDDER = .000

RUN NO. 45/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	2.362	-.04494	.08603	-.01759	-.04845	.08410	-.01414	-.01388	-.01286	-.01117	-.01098
7.320	5.443	.00837	.07965	-.01151	.00078	.08009	-.01572	-.01561	-.01495	-.01305	-.01336
7.320	9.105	.08661	.07217	-.00664	.07430	.08500	-.01640	-.01697	-.01556	-.01416	-.01382
7.320	13.290	.18620	.06471	-.00300	.16634	.10578	-.01729	-.01724	-.01612	-.01379	-.01459
7.320	17.316	.30257	.06094	-.00026	.27072	.14824	-.01729	-.01752	-.01625	-.01481	-.01402
7.320	20.983	.42423	.05899	-.00052	.37497	.20699	-.01885	-.01832	-.01553	-.01672	-.01580
7.320	25.065	.57100	.05823	-.00091	.49246	.29482	-.01734	-.01751	-.01624	-.01534	-.01458
7.320	29.271	.73411	.05840	-.00130	.61182	.40988	-.01729	-.01697	-.01572	-.01387	-.01372
7.320	33.242	.88995	.05760	-.00616	.71275	.53602	-.01728	-.01705	-.01528	-.01575	-.01335
7.320	37.431	1.06189	.05623	-.01505	.80905	.69008	-.01570	-.01678	-.01493	-.01574	-.01137
7.320	41.374	1.22590	.05554	-.02625	.88321	.85197	-.01350	-.01445	-.01363	-.01492	-.00911
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6028) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 85.000 RUDDER = -10.000

RUN NO. 49/ 0 RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.998	-.04956	.06933	-.01080	-.05255	.08755	-.00920	-.01050	-.00986	-.00773	-.00767
7.320	5.065	-.00040	.08418	-.00279	-.00783	.08382	-.01082	-.01191	-.01107	-.00875	-.00955
7.320	8.851	.08178	.07457	.00006	.06934	.08626	-.01140	-.01287	-.01138	-.01030	-.00971
7.320	13.010	.18644	.06597	-.00167	.16681	.10625	-.01297	-.01387	-.01246	-.01153	-.01078
7.320	16.934	.30919	.06154	-.00169	.27786	.14893	-.01360	-.01423	-.01267	-.01095	-.01016
7.320	20.648	.43032	.05855	-.00234	.38203	.20653	-.01456	-.01482	-.01231	-.01295	-.01195
7.320	24.757	.57879	.05888	.00150	.50094	.28586	-.01327	-.01421	-.01287	-.01118	-.01001
7.320	28.964	.74193	.05842	-.00336	.62085	.41040	-.01285	-.01339	-.01239	-.01093	-.00952
7.320	32.878	.89652	.05756	-.00835	.72168	.53501	-.01231	-.01329	-.01234	-.01142	-.00827
7.320	36.989	1.06805	.05649	-.01896	.81912	.68773	-.01109	-.01283	-.01233	-.01194	-.00562
7.320	41.061	1.23566	.05613	-.02924	.89483	.85397	-.00977	-.01214	-.01233	-.01157	-.00314
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4 (RB6029) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 46/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	11.999	.05178	.03853	.02659	.04264	.04845	-.01456	-.01626	-.01416	-.01338	-.01251
7.320	13.099	.09113	.03543	.04261	.07876	.05794	-.01493	-.01671	-.01476	-.01277	-.01259
7.320	18.313	.14104	.03390	.06173	.12324	.07650	-.01560	-.01725	-.01523	-.01329	-.01270
7.320	23.008	.21457	.03274	.08873	.18655	.11478	-.01555	-.01697	-.01470	-.01244	-.01243
7.320	27.034	.28479	.03307	.11334	.23864	.15890	-.01560	-.01721	-.01463	-.01030	-.01040
7.320	30.723	.35341	.03277	.13409	.28707	.20872	-.01560	-.01743	-.01410	-.00919	-.00905
7.320	34.814	.42839	.03399	.16003	.33231	.27248	-.01258	-.01490	-.01278	-.00559	-.00630
7.320	38.975	.50829	.03368	.18457	.37397	.34589	-.01081	-.01397	-.01044	-.00259	-.00379
7.320	42.950	.58550	.03366	.20199	.40562	.42357	-.00929	-.01282	-.00698	.00009	-.00164
7.320	47.039	.65715	.03285	.21699	.42361	.50330	-.00677	-.01128	-.00465	.00275	-.00017
7.320	51.073	.72231	.03108	.22999	.42966	.58145	-.00315	-.00861	-.00149	.00595	.00497
	GRADIENT	.01759	-.00010	.00543	.01058	.01393	.00028	.00019	.00032	.00051	.00044

AMES3.5-168 OA23 B19 C7 F5 (RB6030) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -14.250

RUN NO. 47/ 0 RN/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.008	.05501	.03247	.02192	.04705	.04320	-.01327	-.00822	-.01340	-.01275	-.01173
7.320	15.055	.09431	.03140	.03822	.08291	.05482	-.01430	-.00737	-.01467	-.01379	-.01295
7.320	16.350	.14238	.03063	.05830	.12549	.07390	-.01428	-.00634	-.01466	-.01364	-.01293
7.320	23.026	.21616	.03069	.08656	.18693	.11279	-.01451	-.00429	-.01332	-.01331	-.01284
7.320	27.020	.28726	.03005	.11375	.24226	.15727	-.01337	-.00241	-.01213	-.01154	-.01292
7.320	30.676	.34826	.03195	.13443	.28323	.20515	-.01276	.00482	-.01075	-.01167	-.01165
7.320	34.784	.42897	.03159	.16222	.33430	.27066	-.01019	.00247	-.00869	-.00841	-.00994
7.320	38.981	.50529	.03138	.18359	.37304	.34226	-.00742	.00527	-.00602	-.00510	-.00791
7.320	42.908	.57860	.03110	.20299	.40262	.41670	-.00487	.00667	-.00528	-.00382	-.00581
7.320	47.000	.65279	.03006	.21967	.42321	.49792	-.00218	.00751	-.00383	-.00091	-.00355
7.320	51.109	.71960	.02912	.23290	.42913	.57838	-.00095	.00665	-.00487	.00032	-.00181
	GRADIENT	.01739	-.00004	.00562	.01044	.01390	.00036	.00045	.00030	.00038	.00028

AMES3.5-168 OA23 B19 C7 (RB6031) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000

RUN NO. 48/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	11.965	.05624	.03289	.02260	.04818	.04383	-.01294	-.00685	-.01174	-.01159	-.01134
7.320	15.092	.09470	.03162	.04099	.08320	.05518	-.01309	-.00607	-.01261	-.01113	-.01142
7.320	18.321	.14174	.03114	.06067	.12476	.07411	-.01315	-.00530	-.01304	-.01343	-.01257
7.320	23.051	.21465	.03121	.09157	.18530	.11276	-.01319	-.00378	-.01260	-.01334	-.01256
7.320	27.030	.28455	.03131	.11967	.23924	.15721	-.01293	-.00082	-.01104	-.01117	-.01182
7.320	30.719	.34875	.03298	.14381	.28297	.20650	-.01130	.00611	-.00994	-.01091	-.01128
7.320	34.792	.42487	.03309	.17124	.33008	.26955	-.00820	.00428	-.00740	-.00764	-.00858
7.320	39.004	.49908	.03397	.19653	.36645	.34051	-.00415	.00648	-.00479	-.00596	-.00640
7.320	42.956	.56687	.03401	.21741	.39317	.41254	-.00083	.00786	-.00217	-.00402	-.00392
7.320	47.029	.63880	.03432	.23859	.41032	.49081	.00129	.00843	-.00107	-.00253	-.00144
7.320	51.005	.70625	.03443	.25637	.41765	.57056	.00130	.00753	-.00228	.00183	.00104
	GRADIENT	.01701	.00008	.00616	.01010	.01370	.00043	.00045	.00034	.00034	.00033

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB8032) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -14.290
SPDBRK = 55.000 RUDDER = .000

RUN NO. 56/ 0 RN/L = 2.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.334	.14233	.06006	-.00691	.12622	.08907	.00436	.00346	.00156	.00709	.00798
10.290	15.416	.22935	.05949	-.00747	.20528	.11832	.00549	.00313	.00136	.00680	.00617
10.290	18.705	.33506	.05865	-.00473	.29856	.15300	.00292	.00301	.00157	.00707	.00603
10.290	23.255	.50125	.05880	-.00350	.43731	.25152	.00288	.00323	.00193	.00726	.00615
10.290	27.286	.66184	.05912	-.00632	.56110	.35595	.00292	.00339	.00282	.00722	.00619
10.290	30.895	.80536	.06066	-.01605	.65995	.46557	.00156	.00136	.00324	.00306	.00306
10.290	34.974	.99142	.05941	-.01965	.77833	.61696	.00435	.00463	.00508	.00999	.01182
10.290	39.163	1.16753	.05897	-.03188	.86801	.78305	.00688	.00535	.00583	.01080	.01409
10.290	43.130	1.33685	.05796	-.04264	.93601	.95624	.00874	.00721	.00789	.02412	.01684
10.290	47.231	1.50223	.05580	-.05557	.97912	1.14067	.01225	.00853	.00684	.01147	.01751
10.290	51.289	1.65926	.05307	-.06911	.99627	1.32794	.01357	.00971	.00677	.00968	.01874
	GRADIENT	.03993	-.00012	-.00157	.02395	.03229	.00025	.00016	.00018	.00021	.00038

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB8033) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -14.290
SPDBRK = 55.000 RUDDER = .000

RUN NO. 59/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.239	.14613	.05980	-.01015	.13013	.08942	.00228	.00005	-.00253	.00495	.00581
10.290	15.328	.23307	.05940	-.00754	.20808	.11889	.00046	-.00080	-.00279	.00456	.00275
10.290	18.579	.34280	.05872	-.00398	.30623	.16487	-.00002	-.00122	-.00279	.00424	.00275
10.290	23.066	.50663	.05941	-.00318	.44480	.25410	-.00021	-.00067	-.00170	.00372	.00276
10.290	27.178	.67075	.05901	-.00627	.59975	.35864	.00107	.00005	-.00069	.00480	.00277
10.290	30.827	.81851	.05801	-.01623	.67314	.46926	-.00055	-.00128	.00093	.00528	.00210
10.290	34.849	1.00481	.05852	-.02155	.79117	.62220	.00254	.00196	.00084	.00743	.00780
10.290	39.029	1.19145	.05793	-.02923	.88907	.79528	.00401	.00261	.00274	.00647	.01078
10.290	42.976	1.36570	.05651	-.04168	.96067	.97234	.00547	.00379	.00422	.00908	.01306
10.290	47.091	1.54206	.05337	-.06740	1.01080	1.16580	.00696	.00391	.00514	.00920	.01630
10.290	51.183	1.69062	.05134	-.08068	1.01975	1.34943	.00903	.00392	.00560	.00557	.01952
	GRADIENT	.04084	-.00018	-.00180	.02464	.03293	.00020	.00014	.00024	.00010	.00043

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6034) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 55.000 RUDDER = .000

RUN NO. 60/ 0 RN/L = 1.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.291	.13521	.00885	-.02016	.13027	.03724	-.00210	-.00298	-.00517	.00348	.00017
10.290	15.344	.22629	.05031	-.01263	.20491	.10840	-.00299	-.00322	-.00547	.00236	-.00095
10.290	18.391	.33276	.05855	-.00975	.29673	.16158	-.00333	-.00339	-.00494	.00183	-.00095
10.290	23.183	.49905	.05797	-.01141	.43593	.24976	-.00295	-.00315	-.00426	.00223	.00007
10.290	27.126	.65976	.05818	-.01832	.56086	.35260	-.00192	-.00217	-.00322	.00235	.00018
10.290	30.833	.83722	.05819	-.02793	.68907	.47908	-.00350	-.00306	-.00127	-.00133	-.00086
10.290	34.836	1.00725	.05873	-.03607	.79319	.62358	-.00018	-.00044	-.00109	.00276	.00473
10.290	39.064	1.19925	.05789	-.04927	.89466	.80071	.00133	.00078	.00027	.00340	.00814
10.290	42.955	1.38525	.05746	-.06311	.97470	.98600	.00166	.00085	.00159	.00378	.01051
10.290	47.075	1.54496	.05520	-.08416	1.01176	1.16888	.00470	.00213	.00185	.00654	.01447
10.290	51.147	1.71940	.05367	-.10437	1.03682	1.37267	.00652	.00291	.00198	.00438	.01843
	GRADIENT	.04177	.00053	-.00224	.02518	.03414	.00023	.00017	.00022	.00007	.00048

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6035) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 61/ 0 RN/L = 1.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.281	.14331	-.01839	-.02851	.14395	.01252	-.00152	-.00331	-.00482	.00241	.00118
10.290	15.323	.23553	.01961	-.02257	.22198	.08116	-.00265	-.00403	-.00526	.00134	.00049
10.290	18.604	.34770	.04801	-.02370	.31422	.15643	-.00309	-.00407	-.00498	.00203	.00050
10.290	23.196	.52362	.06275	-.03012	.45676	.26400	-.00275	-.00399	-.00393	-.00004	.00049
10.290	27.158	.69627	.06525	-.04290	.58972	.37587	-.00119	-.00255	-.00232	.00191	.00163
10.290	30.858	.85748	.06726	-.05839	.70158	.49754	-.00285	-.00322	.00014	-.00203	.00062
10.290	34.889	1.05018	.07022	-.07560	.82125	.65829	.00044	.00022	.00076	.00372	.00681
10.290	39.043	1.22463	.07074	-.08667	.90657	.82635	.00192	.00055	.00142	.00522	.00940
10.290	42.981	1.41728	.07185	-.11170	.98786	1.01880	.00358	.00244	.00247	.00381	.01188
10.290	47.096	1.59778	.07211	-.13083	1.03490	1.21946	.00601	.00332	.00342	.00506	.01457
10.290	51.174	1.75943	.07159	-.14841	1.04732	1.41557	.00785	.00411	.00397	.00485	.01772
	GRADIENT	.04264	.00170	-.00334	.02511	.03594	.00026	.00023	.00026	.00010	.00046

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6036) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
AILRON = .000 BDFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 62/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.274	.17454	.06519	-.03301	.15889	.10081	-.00207	-.00347	-.00542	.00078	-.00033
10.290	15.329	.27538	.06535	-.04016	.24831	.13583	-.00294	-.00405	-.00550	-.00035	-.00101
10.290	18.809	.39140	.06777	-.05065	.34931	.18912	-.00318	-.00405	-.00541	-.00062	-.00097
10.290	23.171	.57975	.07224	-.06719	.50456	.29453	-.00294	-.00405	-.00453	.00045	-.00059
10.290	27.168	.76490	.07809	-.08803	.64470	.41895	-.00186	-.00278	-.00312	.00075	-.00062
10.290	30.861	.92199	.08337	-.10787	.74850	.54476	-.00419	-.00398	-.00146	-.00245	-.00184
10.290	34.863	1.11540	.08899	-.12579	.86434	.71060	-.00044	-.00095	-.00069	.00176	.00179
10.290	39.073	1.32510	.09486	-.15243	.96894	.90888	.00079	.00012	.00053	.00157	.00249
10.290	43.017	1.50837	.09893	-.17746	1.03536	1.10136	.00247	.00200	.00179	.00331	.00296
10.290	47.086	1.70016	.10293	-.20663	1.08227	1.31524	.00400	.00350	.00310	.00018	.00413
10.290	51.152	1.85754	.10415	-.24114	1.08404	1.51200	.00539	.00412	.00514	.00074	.00530
	GRADIENT	.04451	.00114	-.00530	.02569	.03705	.00021	.00022	.00028	.00004	.00016

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6037) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 63/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.248	.12286	.06637	.00441	.10579	.09088	-.00342	-.00505	-.00577	.00120	-.00181
10.290	15.348	.2.197	.06360	.00880	.18758	.11743	-.00488	-.00598	-.00637	-.00055	-.00238
10.290	18.582	.31137	.06294	.01549	.27508	.15888	-.00488	-.00555	-.00617	-.00127	-.00226
10.290	23.213	.47171	.06288	.02561	.40874	.24371	-.00399	-.00504	-.00511	-.00019	-.00142
10.290	27.099	.61614	.06324	.03209	.51969	.33697	-.00253	-.00377	-.00347	.00064	-.00112
10.290	30.785	.75893	.06242	.03026	.62004	.44206	-.00465	-.00500	-.00264	-.00343	-.00174
10.290	34.836	.92791	.06429	.04100	.72491	.53279	-.00047	-.00122	.00025	.00369	.00348
10.290	39.032	1.09383	.06304	.04427	.80998	.73782	.00100	.00005	.00215	.00416	.00738
10.290	42.986	1.24884	.06186	.04412	.87151	.89660	.00422	.00090	.00473	.01099	.01068
10.290	47.129	1.41296	.05973	.04228	.91754	1.07617	.00689	.00152	.00600	.00936	.01452
10.290	51.183	1.53933	.05462	.03496	.92236	1.23361	.00984	.00136	.00909	.01284	.02144
	GRADIENT	.03745	-.00018	.00096	.02250	.03003	.00038	.00022	.00040	.00034	.00057

AMES3.5-16B OA23 B19 C7 E23 F5 M4 N8 R3 V7 W107 (RB6038) (13 SEP 73)

REFERENCE DATA

BREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 64/ 0 RN/L = 1.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.158	.11753	.07119	.00299	.09990	.09434	-.00062	-.00062	.00039	.00650	.00390
10.290	15.276	.19914	.06673	.00677	.17452	.11684	-.00117	-.00253	-.00048	.00458	.00287
10.290	18.507	.29680	.06653	.01295	.26015	.15724	-.00119	-.00255	.00008	.00516	.00284
10.290	23.170	.45672	.06624	.02184	.39382	.24060	-.00085	-.00118	.00138	.00571	.00400
10.290	27.119	.60030	.06655	.02750	.50396	.33288	.00018	-.00029	.00236	.00512	.00479
10.290	30.818	.75407	.06461	.02920	.61450	.44180	-.00074	-.00131	.00347	.00352	.00394
10.290	34.946	.91409	.06772	.03737	.71048	.57910	.00248	.00201	.00570	.00775	.00878
10.290	39.113	1.07487	.06518	.03976	.79288	.72866	.00446	.00426	.00787	.00891	.01112
10.290	42.995	1.23744	.06344	.03970	.86182	.89026	.00700	.00525	.01011	.01343	.01551
10.290	47.105	1.39817	.06037	.04132	.90744	1.06540	.00976	.00551	.01266	.01601	.02085
10.290	51.190	1.54708	.05669	.03313	.92544	1.24106	.01243	.00500	.01453	.01645	.02723
	GRADIENT	.03749	-.00025	.00095	.02261	.02983	.00034	.00022	.00039	.00032	.00057

AMES3.5-16B OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (RB6023) (17 SEP 73)

REFERENCE DATA

BREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = -10.000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 41/ 0 RN/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.154	.19097	.06364	-.00545	.13414	.09419	-.01136	-.01280	-.01525	-.01060	-.01054
7.320	15.309	.24016	.06228	-.00106	.21520	.12347	-.01295	-.01403	-.01643	-.01029	-.01251
7.320	18.590	.34216	.06054	.00206	.30512	.16625	-.01391	-.01435	-.01643	-.00996	-.01214
7.320	23.170	.50364	.05977	.00804	.44134	.25389	-.01348	-.01384	-.01511	-.00971	-.01251
7.320	27.160	.65233	.05954	.01188	.55323	.35075	-.01252	-.01324	-.01432	-.01004	-.01263
7.320	30.856	.79091	.05672	.01280	.64988	.45434	-.01479	-.01480	-.01378	-.01257	-.01262
7.320	34.955	.98679	.05666	.01052	.75993	.60034	-.01230	-.01204	-.01379	-.00845	-.01250
7.320	39.067	1.14440	.05510	.00472	.85360	.76401	-.01104	-.01140	-.01248	-.00870	-.01110
7.320	43.007	1.29912	.05116	-.00379	.91511	.92352	-.00986	-.01167	-.01128	-.00965	-.00930
7.320	47.136	1.46294	.04775	-.01287	.98018	1.10478	-.00911	-.01065	-.01066	-.00656	-.00676
7.320	51.256	1.60567	.04337	-.02295	.97106	1.27949	-.00864	-.00927	-.01062	-.00498	-.00502
	GRADIENT	.03619	-.00046	-.00038	.02296	.03084	.00011	.00011	.00016	.00011	.00014

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N9 R5 V7 W107 (RB6024) (17 SEP 73)

REFERENCE DATA

SREF = 2980.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
AILRON = -10.000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 42/ 0 RN/L = 2.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.034	.14893	.06327	-.00088	.13048	.09256	-.01482	-.01683	-.01591	-.01302	-.01283
7.320	15.149	.23012	.06115	.00299	.20214	.11916	-.01635	-.01813	-.01739	-.01405	-.01406
7.320	18.352	.33060	.06036	.01078	.29478	.16141	-.01671	-.01822	-.01739	-.01430	-.01435
7.320	23.060	.49011	.05881	.01790	.44792	.24608	-.01635	-.01814	-.01618	-.01282	-.01407
7.320	27.093	.64075	.05803	.02390	.58401	.34348	-.01551	-.01677	-.01557	-.01369	-.01476
7.320	30.705	.78067	.05710	.02834	.71207	.44772	-.01714	-.01746	-.01427	-.01476	-.01530
7.320	34.799	.95327	.05631	.02831	.87065	.59027	-.01494	-.01600	-.01427	-.01208	-.01407
7.320	38.982	1.12413	.05346	.02731	.84021	.74872	-.01352	-.01595	-.01354	-.00941	-.01161
7.320	42.934	1.27885	.05065	.02313	.90180	.90818	-.01162	-.01476	-.01351	-.00698	-.00819
7.320	47.034	1.43717	.04647	.01654	.94552	1.08333	-.01007	-.01387	-.01255	-.00125	-.00313
7.320	51.161	1.58299	.04254	.01261	.95962	1.25968	-.00661	-.01172	-.01169	.00353	.00226
	GRADIENT	.03769	-.00047	.00043	.02277	.03032	.00020	.00013	.00013	.00038	.00033

AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107 (886001) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.8600 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -14.250
S/DBRK = 55.000 RUDDER = .000

RUN NO. 10/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	2.009	-.00503	-.00097	.00015	-.39083
5.260	5.081	-.00402	-.00101	-.00009	.31861
5.260	8.715	-.00177	-.00133	-.00004	1.14911
5.260	12.815	-.00086	-.00101	-.00015	1.73973
5.260	16.823	.00036	-.00085	-.00020	1.91646
5.260	20.532	.00268	-.00086	-.00011	1.85267
5.260	24.535	.00181	-.00089	-.00030	1.70271
5.260	28.760	.00125	-.00164	-.00039	1.51656
5.260	32.738	.00096	-.00051	-.00025	1.34914
5.260	36.808	.00161	-.00078	-.00025	1.19184
5.260	40.824	.00114	-.00056	-.00020	1.05433
	GRADIENT	.00000	.00000	.00000	.00000

RUN NO. 22/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.513	-.01084	-.00071	.00012	-.54934
7.320	1.917	-.00937	-.00095	.00043	-.48316
7.320	4.936	-.00919	-.00109	.00032	.15635
7.320	8.729	-.00824	-.00108	.00011	.98120
7.320	12.858	-.00360	-.00129	.00007	1.63872
7.320	16.810	-.00368	-.00106	.00004	1.86726
7.320	20.544	-.00387	-.00142	.00007	1.81966
7.320	24.343	-.00318	-.00129	-.00008	1.68235
7.320	28.863	-.00567	-.00143	.00004	1.50962
7.320	32.797	-.00414	-.00107	-.00015	1.34243
7.320	36.908	-.00582	-.00145	-.00012	1.18802
7.320	40.811	-.00771	-.00144	-.00010	1.05401
	GRADIENT	.00039	-.00009	.00002	.20832

AMES3.5-168 OA23 B22 C7 E23 F3 H4 R3 V7 W107 (B6J001) (13 SEP 73)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.5600 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	.000
AILRON =	.000	BDFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 2/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.961	-.00980	-.00045	.00042	-.47564
10.290	5.009	-.00708	-.00056	.00022	.12720
10.290	8.695	-.00622	-.00070	-.00009	.94267
10.290	12.804	-.00601	-.00092	.00008	1.61552
10.290	16.795	-.00549	-.00043	-.00020	1.92295
10.290	20.533	-.00174	-.00106	-.00020	1.80790
10.290	24.397	-.00573	-.00023	-.00059	1.73982
10.290	28.664	-.00656	-.00007	-.00101	1.55325
10.290	32.549	-.00589	.00167	-.00057	1.40517
10.290	36.661	-.00563	-.00108	-.00041	1.18851
10.290	40.701	-.00578	-.00138	-.00055	1.04974
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (886002) (13 SEP 73)

REFERENCE DATA

SREF =	2090.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6600 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	5.000	ELEVON =	.000
AILRON =	.000	BDFLAP =	-14.250
SPOLRK =	55.000	RUDDER =	.000

RUN NO. 9/ 0 RN/L = 1.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.262	-.06189	-.00016	-.00197	1.54942
5.260	13.439	-.06099	-.00083	-.00219	1.66501
5.260	17.126	-.05763	-.00286	-.00256	1.84489
5.260	20.944	-.05433	-.00492	-.00286	1.81094
5.260	25.021	-.05331	-.00648	-.00358	1.67321
5.260	28.878	-.05304	-.00756	-.00404	1.50779
5.260	32.620	-.05460	-.00740	-.00492	1.34554
5.260	36.771	-.05277	-.00809	-.00511	1.19728
5.260	41.056	-.05170	-.00909	-.00528	1.05371
	GRADIENT	.00032	-.00030	-.00012	-.02184

RUN NO. 26/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.023	-.05290	-.00352	-.00110	1.39210
7.320	13.228	-.05180	-.00419	-.00130	1.53978
7.320	17.139	-.04840	-.00582	-.00171	1.78628
7.320	20.872	-.04595	-.00720	-.00185	1.78155
7.320	25.052	-.04520	-.00821	-.00259	1.64764
7.320	28.929	-.04850	-.00750	-.00352	1.49098
7.320	32.738	-.04808	-.00813	-.00411	1.33984
7.320	36.904	-.04915	-.00892	-.00440	1.18682
7.320	40.976	-.05047	-.00948	-.00489	1.04832
	GRADIENT	.00006	-.00019	-.00014	-.01703

RUN NO. 8/ 0 RN/L = 1.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	11.984	-.04525	-.00454	-.00110	1.34185
10.290	13.232	-.04407	-.00517	-.00127	1.50603
10.290	17.070	-.0421[illegible]	-.00628	-.00169	1.75103
10.290	20.691	-.04158	-.00715	-.00201	1.74600
10.290	24.962	-.04192	-.00823	-.00282	1.63163
10.290	28.780	-.04373	-.00765	-.00403	1.48226
10.290	32.592	-.04463	-.00768	-.00440	1.33410
10.290	36.745	-.04585	-.00839	-.00501	1.18207
10.290	40.812	-.04494	-.00884	-.00551	1.04706
	GRADIENT	-.00006	-.00013	-.00016	-.01554

AME3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107 (BB0003) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1078.4600 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.8800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 13/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	1.916	-.01366	-.00083	.00024	-.79167
5.260	4.927	-.01192	-.00104	.00009	-.18910
5.260	8.628	-.00903	-.00135	-.00011	.65590
5.260	12.740	-.00797	-.00098	-.00029	1.40768
5.260	16.768	-.00760	-.00100	-.00043	1.72535
5.260	20.529	-.00547	-.00127	-.00032	1.73848
5.260	24.454	-.00682	-.00156	-.00057	1.63588
5.260	28.692	-.00690	-.00126	-.00072	1.47692
5.260	32.627	-.00733	-.00118	-.00070	1.32390
5.260	36.765	-.00814	-.00114	-.00072	1.17341
5.260	40.775	-.00869	-.00129	-.00080	1.04294
	GRADIENT	.00058	-.00006	-.00005	.20012

RUN NO. 17/ 0 RN/L = 1.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.755	-.01070	-.00144	.00007	-.83360
7.320	4.928	-.00897	-.00116	.00007	-.29218
7.320	8.615	-.00727	-.00118	-.00026	.57809
7.320	12.793	-.00469	-.00118	-.00026	1.37974
7.320	16.805	-.00333	-.00108	-.00027	1.70713
7.320	20.531	-.00287	-.00141	-.00024	1.71501
7.320	24.578	-.00222	-.00111	-.00040	1.61783
7.320	28.707	-.00437	-.00128	-.00057	1.46930
7.320	32.668	-.00435	-.00108	-.00062	1.31384
7.320	36.763	-.00579	-.00126	-.00058	1.16982
7.320	40.754	-.00567	-.00154	-.00045	1.03727
	GRADIENT	.00055	.00009	-.00000	.17295

AMES3.5-168 OA23 B22 L7 E23 F5 M4 R5 V7 W107 (B80003) (13 SEP 73)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.6000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	-40.000
AILRON =	.000	BOFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 6/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.914	-.01243	.00001	.00021	-.63603
10.290	4.963	-.01357	-.00035	.00023	-.09750
10.290	8.616	-.01244	-.00039	.00009	.71565
10.290	12.747	-.01119	-.00030	-.00004	1.46079
10.290	16.781	-.01123	-.00065	-.00020	1.74997
10.290	20.483	-.00967	-.00100	-.00026	1.71831
10.290	24.487	-.00769	-.00036	-.00089	1.62426
10.290	26.692	-.00811	-.00059	-.00087	1.46569
10.290	32.587	-.00690	-.00072	-.00086	1.30980
10.290	36.664	-.00694	-.00074	-.00081	1.16316
10.290	40.751	-.00729	-.00105	-.00081	1.03083
	GRADIENT	-.00037	-.00012	.00001	.17662

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (88803A) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4600 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 13/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
.260	1.916	-.01368	-.00085	.00024	-.79167
5.260	4.927	-.01192	-.00104	.00009	-.18910
5.260	8.628	-.00903	-.00135	-.00011	.65590
5.260	12.740	-.00797	-.00098	-.00029	1.40768
5.260	16.768	-.00760	-.00100	-.00043	1.72535
5.260	20.529	-.00547	-.00127	-.00032	1.73848
5.260	24.454	-.00682	-.00156	-.00057	1.63588
5.260	28.692	-.00690	-.00126	-.00072	1.47692
5.260	32.627	-.00733	-.00118	-.00070	1.32390
5.260	36.765	-.00814	-.00114	-.00072	1.17341
5.260	40.775	-.00869	-.00129	-.00080	1.04294
	GRADIENT	.00058	-.00006	-.00005	.20012

RUN NO. 17/ 0 RN/L = 1.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.798	-.01070	-.00144	.00007	-.83360
7.320	4.928	-.00897	-.00116	.00007	-.29218
7.320	8.615	-.00727	-.00118	-.00026	.57809
7.320	12.793	-.00469	-.00118	-.00026	1.37974
7.320	16.805	-.00333	-.00108	-.00027	1.70713
7.320	20.531	-.00287	-.00141	-.00024	1.71501
7.320	24.578	-.00222	-.00111	-.00040	1.61783
7.320	28.707	-.00437	-.00128	-.00057	1.46930
7.320	32.668	-.00435	-.00108	-.00062	1.31384
7.320	36.763	-.00579	-.00126	-.00058	1.16982
7.320	40.754	-.00587	-.00154	-.00045	1.03727
	GRADIENT	.00055	.00009	-.00000	.17295

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (080803A) (13 SEP 73)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 7/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.642	-.00604	-.00057	.00014	-.87269
10.290	4.880	-.00572	-.00099	.00003	-.37140
10.290	8.675	-.00695	-.00105	.00006	.49148
10.290	12.799	-.00655	-.00127	.00007	1.33736
10.290	16.911	-.00642	-.00113	-.00002	1.69557
10.290	20.572	-.00709	-.00121	-.00007	1.71624
10.290	24.706	-.00781	-.00114	-.00008	1.61030
10.290	28.849	-.00893	-.00104	-.00041	1.45517
10.290	32.826	-.00944	-.00111	-.00065	1.30162
10.290	36.885	-.01056	-.00111	-.00061	1.15649
10.290	40.740	-.01222	-.00111	-.00087	1.03207
	GRADIENT	.00010	-.00013	-.00004	.15483

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (884004) (13 SEP 73)

REFERENCE DATA

SREF = 2980.0000 SQ.FT. XMRP = 1070.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 24/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.851	-.01129	-.00101	.00049	-.67439
7.320	4.943	-.00903	-.00099	.00041	-.01213
7.320	8.659	-.00742	-.00095	.00013	.86033
7.320	12.818	-.00408	-.00105	.00005	1.54995
7.320	16.791	-.00044	-.00075	-.00023	1.80297
7.320	20.489	-.00245	-.00103	-.00019	1.77654
7.320	24.572	-.00385	-.00121	-.00028	1.65429
7.320	28.716	-.00563	-.00125	-.00045	1.48866
7.320	32.649	-.00508	-.00115	-.00047	1.33573
7.320	36.791	-.0057.	-.00095	-.00052	1.18328
7.320	40.816	-.00809	-.00144	-.00044	1.04939
	GRADIENT	.00073	.00001	-.00003	.21419

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W.07 (BB6005) (1? SEP 73)

REFERENCE DATA

SREF =	2660 .000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	15.000
AILRON =	.000	BDFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 14/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	1.977	-.01097	-.00096	.00025	-.18281
5.260	5.019	-.00986	-.00101	.00008	.53502
5.260	8.674	-.00834	-.00123	.00002	1.31358
5.260	12.777	-.00582	-.00093	-.00017	1.77036
5.260	16.803	-.00623	-.00108	-.00014	1.86687
5.260	20.399	-.00595	-.00140	-.00011	1.78033
5.260	20.626	-.00395	-.00120	-.00014	1.77344
5.260	24. 17	-.00572	-.00158	-.00017	1.62021
5.260	28.710	-.00584	-.00143	-.00027	1.44170
5.260	32.703	-.00654	-.00124	-.00024	1.28036
5.260	36.769	-.00692	-.00127	-.00025	1.13331
5.260	40.833	-.00766	-.00150	-.00008	1.00183
	GRADIENT	.00000	.00000	.00000	.00000

RUN NO. 18/ 0 RN/L = 1.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.985	-.00741	-.00059	.00012	-.27042
7.320	5.092	-.00658	-.00087	.00013	.41197
7.320	8.740	-.00527	-.00091	.00011	1.17358
7.320	12.835	-.00316	-.00094	.00014	1.71172
7.320	16.964	-.00427	-.00124	.00015	1.83156
7.320	20.540	-.00065	-.00087	.00011	1.75662
7.320	24.580	-.00213	-.00122	-.00018	1.60649
7.320	28.719	-.00306	-.00106	-.00012	1.43421
7.320	32.599	-.00339	-.00081	-.00023	1.27946
7.320	36.758	-.00343	-.00061	-.00007	1.13223
7.320	40.819	-.00345	-.00100	.00025	.99914
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B22 C7 E26 F5 M4 R5 V7 W107 (800005) (13 SEP 73)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 1076.4000 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
AILRON = .000 BOFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 3/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.980	-.01145	-.00025	.00023	-.24357
10.290	5.067	-.01132	-.00078	.00022	.42670
10.290	8.751	-.00881	-.00072	.00013	1.20070
10.290	12.833	-.00755	-.00110	.00016	1.72960
10.290	16.785	-.00761	-.00098	-.00032	1.84128
10.290	20.448	-.00523	-.00096	-.00011	1.76552
10.290	20.662	-.01129	-.00119	.00047	1.76799
10.290	24.513	-.00578	-.00093	-.00059	1.60601
10.290	28.604	-.00592	-.00082	-.00056	1.43203
10.290	32.571	-.00755	-.00108	-.00059	1.27272
10.290	36.682	-.00579	-.00124	.00019	1.12684
10.290	40.860	-.00788	-.00185	.00056	.99143
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (886006) (13 SEP 73)

REFERENCE DATA

SREF =	2680.0000 SQ.FT.	XMRP =	1078.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	-40.000
AILRON =	.000	BDFLAP =	.000
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 25/ 0 RN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.775	-.01027	-.00136	.00006	-.81038
7.320	4.882	-.00878	-.00133	.00006	-.26123
7.320	8.610	-.00711	-.00131	.00007	.61086
7.320	12.779	-.00440	-.00118	.00006	1.39104
7.320	16.794	-.00353	-.00107	-.00012	1.72661
7.320	20.472	-.00297	-.00119	-.00002	1.72847
7.320	24.554	-.00185	-.00122	-.00024	1.62899
7.320	28.766	-.00401	-.00135	-.00046	1.46922
7.320	32.678	-.00488	-.00120	-.00048	1.31774
7.320	36.819	-.00576	-.00140	-.00045	1.16532
7.320	40.872	-.00505	-.00115	-.00043	1.03389
	GRADIENT	.00048	.00001	.00000	.17698

AMES3.5-166 OA23 B22 C7 E23 F5 H4 R5 V7 W107 (886007) (13 SEP 73)

REFERENCE DATA

SREF = 2980.0000 SQ.FT. XMRP = 1076.4600 IN.
LREF = 474.6400 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000

RUN NO. 11/ 0 RN/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	1.997	-.00965	-.00112	.00005	-.36581
5.260	5.051	-.01823	-.00110	.00003	.34337
5.260	8.736	-.00677	-.00149	.00008	1.19176
5.260	12.696	-.00413	-.00104	-.00011	1.76654
5.260	16.780	-.00251	-.00093	-.00026	1.92844
5.260	20.503	-.00163	-.00116	-.00016	1.85786
5.260	24.539	-.00199	-.00146	-.00025	1.69877
5.260	28.700	-.00283	-.00114	-.00040	1.52089
5.260	32.688	-.00253	-.00100	-.00041	1.35018
5.260	36.776	-.00383	-.00096	-.00026	1.19284
5.260	40.874	-.00277	-.00104	-.00013	1.05128
	GRADIENT	.00000	.00000	.00000	.00000

RUN NO. 21/ 0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.791	-.01251	-.00098	.00046	-.50356
7.320	4.869	-.01184	-.00119	.00042	.13710
7.320	8.623	-.00917	-.00078	.00040	1.04503
7.320	12.749	-.00629	-.00117	.00008	1.66983
7.320	16.787	-.00544	-.00109	.00010	1.89090
7.320	20.470	-.00512	-.00131	.00012	1.83954
7.320	24.524	-.00517	-.00128	-.00018	1.69669
7.320	28.748	-.00603	-.00112	-.00018	1.51446
7.320	36.790	-.00939	-.00121	-.00013	1.19442
7.320	40.902	-.00818	-.00150	-.00005	1.05396
	GRADIENT	.00022	-.00007	-.00001	.20748

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (888007) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.8800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000

RUN NO. 1/ 0 RN/L = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.910	-.00541	-.00035	.00006	-.42905
10.290	5.018	-.00363	-.00052	.00002	.14730
10.290	8.693	-.00369	-.00062	-.00004	.98094
10.290	12.716	-.00292	-.00078	-.00021	1.63078
10.290	16.773	-.00089	-.00175	-.00065	1.84756
10.290	20.468	-.00033	-.00087	-.00011	1.80744
10.290	24.502	-.00152	-.00028	-.00063	1.70344
10.290	28.641	-.00068	.00008	-.00089	1.53875
10.290	32.572	-.00065	-.00053	-.00062	1.35509
10.290	36.689	-.00206	-.00119	-.00086	1.18551
10.290	40.755	-.00304	-.00121	-.00107	1.04748
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-160 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (BB6008) (13 SEP 73)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.8600 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	.000
AILRON =	.000	BDFLAP =	15.750
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 12/ 0 RN/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	1.915	-.01007	-.00074	.00009	-.34791
5.260	5.000	-.01021	-.00082	-.00009	.37528
5.260	8.595	-.00721	-.00106	-.00011	1.22299
5.260	12.754	-.00695	-.00092	-.00029	1.77020
5.260	16.691	-.00579	-.00083	-.00049	1.91775
5.260	20.446	-.00544	-.00078	-.00030	1.84290
5.260	24.493	-.00591	-.00134	-.00063	1.67715
5.260	28.634	-.00690	-.00086	-.00072	1.49563
5.260	32.619	-.00734	-.00049	-.00074	1.32442
5.260	36.752	-.00797	-.00054	-.00062	1.16876
5.260	40.837	-.00816	-.00074	-.00049	1.03148
	GRADIENT	-.00005	-.00003	-.00006	.23440

RUN NO. 20/ 0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.747	-.01217	-.00165	.00077	-.64580
7.320	4.885	-.00927	-.00169	.00068	.32106
7.320	8.625	-.00837	-.00161	.00041	1.42922
7.320	12.770	-.00540	-.00184	.00040	2.08331
7.320	16.764	-.00495	-.00191	.00010	2.17220
7.320	20.470	.04717	-.00523	.00652	.70906
7.320	24.657	-.00581	-.00217	.00009	1.78904
7.320	28.773	-.00626	-.00187	-.00014	1.57172
7.320	32.743	-.00459	-.00177	-.00013	1.38159
7.320	36.896	-.00725	-.00184	-.00010	1.21013
7.320	40.912	-.00539	-.00213	-.00009	1.06562
	GRADIENT	.00093	-.00001	-.00003	.30810

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107 (BB6008) (13 SEP 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	.000
AILRON =	.000	BDFLAP =	13.750
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 5/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.825	-.00854	-.00023	.00020	-.47199
10.290	4.940	-.00850	-.00064	.00013	.14857
10.290	8.629	-.00478	-.00059	-.00001	.97933
10.290	12.765	-.00573	-.00117	-.00026	1.66877
10.290	16.746	-.00470	-.00122	-.00059	1.85434
10.290	20.483	-.00399	-.00138	-.00026	1.78998
10.290	24.528	-.00582	-.00128	-.00110	1.64495
10.290	28.725	-.00647	-.00115	-.00111	1.46706
10.290	32.589	-.00632	-.00130	-.00065	1.31087
10.290	36.751	-.00839	-.00149	-.00105	1.15956
10.290	40.898	-.00650	-.00155	-.00010	1.02177
	GRADIENT	.00001	-.00013	-.00002	.19920

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (886009) (13 SEP 73)

REFERENCE DATA

SREF =	2890.0000 SQ.FT.	XMRP =	1078.4600 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.8800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	15.000
AILRON =	.000	BDFLAP =	13.750
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 15/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	1.914	-.01231	-.00091	.00016	-.14440
5.260	4.921	-.01153	-.00096	-.00002	.57003
5.260	8.615	-.00887	-.00122	-.00002	1.35766
5.260	12.708	-.00812	-.00100	-.00024	1.78564
5.260	16.760	-.00627	-.00095	-.00024	1.86393
5.260	20.464	-.00607	-.00133	-.00010	1.77170
5.260	24.522	-.00644	-.00151	-.00020	1.59904
5.260	28.718	-.00815	-.00169	-.00032	1.41961
5.260	32.642	-.00772	-.00141	-.00029	1.25927
5.260	36.798	-.00771	-.00129	-.00023	1.11180
5.260	40.820	-.00914	-.00170	-.00010	.98348
	GRADIENT	.00026	-.00002	-.00006	.23761

RUN NO. 19/ 0 RN/L = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.796	-.01380	-.00170	.00044	-.14791
7.320	5.069	-.01066	-.00150	.00042	.49685
7.320	8.614	-.00830	-.00137	.00041	1.22647
7.320	12.705	-.00764	-.00186	.00043	1.72832
7.320	16.755	-.00272	-.00124	.00008	1.83657
7.320	20.485	-.00372	-.00143	.00044	1.74999
7.320	24.515	-.00605	-.00156	.00017	1.59424
7.320	28.671	-.00666	-.00155	.00009	1.41847
7.320	32.599	-.00467	-.00128	.00009	1.26167
7.320	36.651	-.00570	-.00153	.00018	1.11751
7.320	40.846	-.02767	-.02133	.01329	.97282
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (886009) (13 SEP 73)

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
AILRON = .000 BOFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 4/ 0 RN/L = 1.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.849	-.01669	-.00054	.00053	-.21462
10.290	4.945	-.01538	-.00076	.00036	.41871
10.290	8.638	-.01562	-.00110	.00023	1.21706
10.290	12.700	-.01223	-.00104	.00011	1.75667
10.290	16.758	-.01041	-.00066	-.00022	1.88109
10.290	20.468	-.00972	-.00039	-.00050	1.79270
10.290	24.438	-.00854	-.00015	-.00058	1.63289
10.290	28.583	-.00908	-.00005	-.00092	1.45195
10.290	32.546	-.00847	.00145	-.00105	1.30330
10.290	36.692	-.01099	.00247	-.00098	1.15379
10.290	40.709	-.00760	-.00211	.00067	.97683
	GRADIENT	.00042	-.00007	-.00006	.20454

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107 (88609A) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4600 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
AILRON = .000 BDFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 15/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	1.914	-.01231	-.00091	.00016	-.14440
5.260	4.921	-.01153	-.00096	-.00002	.57003
5.260	8.615	-.00887	-.00122	-.00002	1.35766
5.260	12.708	-.00812	-.00100	-.00024	1.78564
5.260	16.760	-.00627	-.00095	-.00024	1.86393
5.260	20.464	-.00607	-.00133	-.00010	1.77170
5.260	24.522	-.00644	-.00151	-.00020	1.59904
5.260	28.718	-.00815	-.00169	-.00032	1.41961
5.260	32.642	-.00772	-.00141	-.00029	1.25927
5.260	36.798	-.00771	-.00129	-.00023	1.11180
5.260	40.820	-.00914	-.00170	-.00010	.98348
	GRADIENT	.00026	-.00002	-.00006	.23761

RUN NO. 23/ 0 RN/L = 2.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.760	-.01013	-.00063	.00071	-.23043
7.320	4.849	-.00663	-.00044	.00046	.45095
7.320	8.603	-.00598	-.00063	.00038	1.25719
7.320	12.788	-.00225	-.00094	.00036	1.76437
7.320	16.785	-.00170	-.00072	.00016	1.85866
7.320	20.456	-.00339	-.00132	.00011	1.75743
7.320	24.552	-.00274	-.00112	.00013	1.60518
7.320	28.693	-.00544	-.00107	.00019	1.42429
7.320	32.709	-.00469	-.00095	.00021	1.26353
7.320	36.787	-.00597	-.00126	.00025	1.11883
	GRADIENT	.00114	.00006	-.00008	.22113

AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107 (88609A) (13 SEP 73)

REFERENCE DATA

SREF =	2880.0000 SQ.FT.	XMRP =	1078.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6600 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0150 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	15.000
AILRON =	.000	BOFLAP =	13.750
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 4/ 0 RN/L = 1.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.849	-.01669	-.00054	.00053	-.21462
10.290	4.945	-.01538	-.00076	.00036	.41871
10.290	8.638	-.01562	-.00110	.00023	1.21706
10.290	12.700	-.01220	-.00104	.00011	1.75667
10.290	16.758	-.01041	-.00066	-.00022	1.88109
10.290	20.468	-.00972	-.00039	-.00050	1.79270
10.290	24.438	-.00854	-.00015	-.00058	1.63289
10.290	28.583	-.00908	-.00005	-.00092	1.45195
10.290	32.5[illegible]	-.00847	.00145	-.00105	1.30330
10.290	36.6[illegible]	-.01099	.00247	-.00098	1.15379
10.290	40.709	-.00760	-.00211	.00067	.97683
	GRADIENT	.00042	-.00007	-.00006	.20454

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (BB8D10) (13 SEP 73)

REFERENCE DATA

SREF =	2080.0000 SQ.FT.	XMRP =	1078.4800 IN.		
LREF =	474.6000 IN.	YMRP =	.0000 IN.		
BREF =	936.6600 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0100 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	.000
AILRON =	.000	BDFLAP =	.000
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 55/ 0 RN/L = 2.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.240	-.00637	-.00048	-.00041	1.66128
5.260	15.296	-.00602	-.00047	-.00059	1.87856
5.260	18.454	-.00372	-.00046	-.00078	1.92307
5.260	23.095	-.00073	-.00073	-.00052	1.77799
5.260	27.026	.00098	-.00025	-.00068	1.60944
5.260	30.751	.00706	.00004	-.00121	1.44601
5.260	34.762	.00479	.00006	-.00093	1.28045
5.260	39.027	.00875	.00031	-.00078	1.12233
5.260	42.894	.00997	-.00008	-.00081	.99291
5.260	47.060	.01255	-.00005	-.00055	.86816
5.260	51.086	.01651	-.00007	.00038	.75861
	GRADIENT	.00058	.00002	.00001	-.03016

RUN NO. 27/ 0 RN/L = 1.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.222	-.01682	-.00277	.00039	1.57476
7.320	15.299	-.01035	-.00179	.00025	1.81375
7.320	18.615	-.01213	-.00144	.00021	1.90940
7.320	23.183	-.01301	-.00254	.00039	1.77330
7.320	27.162	-.00696	-.00045	.00057	1.60431
7.320	30.845	-.00094	-.00047	.00084	1.43949
7.320	34.933	-.00461	-.00037	.00057	1.27412
7.320	39.093	-.00505	-.00063	.00066	1.12032
7.320	42.965	-.00375	.00003	.00132	.99162
7.320	47.143	-.00392	-.00200	.00123	.86601
7.320	51.147	.00560	.00069	.00133	.75711
	GRADIENT	.00041	.00006	.00003	-.02849

AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 W107 (888011) (13 SEP 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 52/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.300	-.01051	-.00117	-.00019	1.66192
5.260	15.3[illegible]	-.00549	-.00021	-.00007	1.87653
5.260	18.622	-.00327	-.00043	-.00015	1.89214
5.260	23.082	-.00336	-.00101	-.00024	1.74997
5.260	27.001	.00127	-.00021	-.00043	1.58226
5.260	30.744	.00433	-.00077	-.00040	1.42931
5.260	34.758	.00272	-.00020	-.00082	1.25849
5.260	38.976	.00722	.00012	-.00053	1.10508
5.260	42.760	.01156	.00027	-.00038	.98048
5.260	47.005	.01328	.00011	-.00026	.83473
5.260	50.899	.01544	-.00024	.00064	.74988
	GRADIENT	.00063	.00002	.00000	-.03034

RUN NO. 28/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.186	-.00603	-.00139	-.00001	1.60800
7.320	15.248	-.00169	-.00101	.00006	1.88283
7.320	18.597	-.00047	-.00050	-.00001	1.91341
7.320	23.166	-.00027	-.00087	.00021	1.77452
7.320	27.061	.00317	.00014	.00030	1.59698
7.320	30.861	.00698	.00030	.00050	1.42528
7.320	34.944	.00611	.00053	.00052	1.25885
7.320	38.985	.00619	.00041	.00080	1.10926
7.320	43.032	.00913	.00049	.00115	.97379
7.320	47.091	.01069	.00022	.00133	.85294
7.320	51.150	.01445	.00073	.00172	.74293
	GRADIENT	.00045	.00005	.00004	-.02998

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (886012) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 56/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.267	-.01059	-.00053	-.00036	1.65425
5.260	13.294	-.00905	-.00084	-.00049	1.88889
5.260	18.513	-.00650	-.00066	-.00071	1.92231
5.260	23.068	-.00275	-.00074	-.00063	1.77902
5.260	27.032	-.00029	-.00024	-.00061	1.60488
5.260	30.731	.00372	-.00035	-.00108	1.44284
5.260	34.806	.00267	-.00000	-.00089	1.27767
5.260	38.951	.00511	.00019	-.00107	1.12623
5.260	42.829	.00617	-.00019	-.00080	.99707
5.260	47.061	.00972	-.00010	-.00037	.87003
5.260	51.029	.01143	-.00034	.00038	.76258
	GRADIENT	.00056	.00002	.00001	-.03012

RUN NO. 29/ 0 RN/L = 1.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.205	-.00694	-.00139	.00019	1.61525
7.320	15.250	-.00553	-.00120	.00021	1.85276
7.320	18.551	-.00125	-.00044	.00020	1.90865
7.320	23.155	-.00060	-.00044	.00042	1.77923
7.320	27.161	.00125	.00011	.00031	1.60583
7.320	30.839	.00044	-.00065	.00043	1.44197
7.320	34.953	.00574	.00113	.00053	1.27431
7.320	39.154	.00678	.00067	.00084	1.12093
7.320	43.071	.00821	.00078	.00111	.99000
7.320	51.133	.01206	.00092	.00151	.76003
	GRADIENT	.00047	.00006	.00003	-.02864

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (888013) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 933.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
AILRON = .000 BOFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 307 0 RN/L = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.128	-.01177	-.00218	-.00001	1.50147
7.320	15.255	-.00612	-.00158	.00006	1.78972
7.320	18.477	-.00612	-.00142	.00009	1.85078
7.320	23.141	-.00408	-.00120	.00023	1.72502
7.320	27.152	-.00379	-.00080	.00025	1.56407
7.320	30.820	.00317	-.00049	.00042	1.40227
7.320	34.806	.00111	-.00014	.00041	1.24459
7.320	39.076	.00380	-.00003	.00076	1.08910
7.320	42.980	.00756	.00043	.00090	.96091
7.320	47.110	.00721	.00042	.00113	.84014
7.320	51.159	.00592	-.00011	.00147	.73158
	GRADIENT	.00046	.00006	.00004	-.02761

AMES3.5-166 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (888015) (13 SEP 73)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6400 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
AILRON = .000 BOFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 31/ 0 RN/L = 1.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.250	-.00920	-.00072	-.00023	1.72838
5.260	15.347	-.00671	-.00049	-.00042	1.87817
5.260	18.579	-.00398	-.00045	-.00050	1.86445
5.260	23.084	-.00241	-.00068	-.00043	1.70622
5.260	27.034	.00011	-.00010	-.00042	1.53691
5.260	30.755	.00426	-.00047	-.00081	1.38768
5.260	34.814	.00463	.00033	-.00095	1.21834
5.260	38.992	.00728	.00047	-.00077	1.07000
5.260	42.927	.01059	.00045	-.00046	.94469
5.260	47.091	.01116	-.00026	-.00016	.82442
5.260	51.131	.01678	-.00001	.00106	.71933
	GRADIENT	.00062	.00002	.00002	-.03154

RUN NO. 32/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.115	-.01514	-.00222	-.00004	1.59714
7.320	15.203	-.00994	-.00155	-.00005	1.83006
7.320	18.440	-.00681	-.00116	-.00004	1.86959
7.320	23.066	-.00253	-.00082	.00020	1.71794
7.320	27.009	-.00018	-.00010	.00030	1.55273
7.320	30.904	.00526	.00021	.00019	1.38846
7.320	34.780	.00380	.00031	.00071	1.22693
7.320	38.946	.00872	.00072	.00079	1.07568
7.320	42.870	.01045	.00078	.00126	.94880
7.320	47.018	.01293	.00067	.00159	.82782
7.320	51.064	.01163	.00006	.00159	.72149
	GRADIENT	.00070	.00007	.00015	-.02958

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (BB8016) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 33/ 0 RN/L = 1.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.105	-.01472	-.00247	.00052	1.27379
7.320	15.164	-.00883	-.00182	.00064	1.64140
7.320	18.451	-.00755	-.00163	.00064	1.76476
7.320	23.063	-.00283	-.00096	.00094	1.67978
7.320	26.991	-.00093	-.00074	.00109	1.53893
7.320	30.898	.02450	-.00199	-.00102	.58947
7.320	34.872	.00664	.00005	.00121	1.22934
7.320	38.978	.00815	.00040	.00160	1.08563
7.320	42.953	.01039	.00035	.00164	.95986
7.320	47.068	.01179	.00021	.00195	.84159
7.320	51.160	.01567	.00065	.00245	.73338
	GRADIENT	.00070	.00008	.00004	-.02278

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (BB8017) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000

RUN NO. 34/ 0 RN/L = 1.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.151	-.01195	-.00155	.00071	1.17988
7.320	15.272	-.01099	-.00149	.00049	1.57726
7.320	18.538	-.00728	-.00137	.00059	1.74068
7.320	23.164	-.00438	-.00075	.00081	1.68518
7.320	27.155	-.00261	-.00015	.00086	1.54579
7.320	31.011	.00528	.00058	.00092	1.39831
7.320	34.957	.00329	.00046	.00093	1.24487
7.320	39.150	.00464	.00043	.00114	1.09661
7.320	43.035	.00618	.00047	.00127	.97421
7.320	47.128	.00868	.00069	.00151	.85493
7.320	51.248	.00840	.00039	.00188	.74601
	GRADIENT	.00156	.00006	.00003	-.02063

AMES3.5-1 18 OA23 B19 C7 E23 F5 H4 A8 R3 V7 W107 (BB0018) (13 SEP 73)

REFERENCE DATA

SREF =	2990.0000 SQ.FT.	XMRP =	1076.4600 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	938.6600 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0100 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	-40.000
AILRON =	.000	BDFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 33/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.357	-.01348	-.00081	.00024	1.18820
5.260	15.383	-.00951	-.00047	.00022	1.56456
5.260	18.608	-.00676	-.00051	.00006	1.72742
5.260	23.193	-.00211	-.00054	.00018	1.68023
5.260	27.190	.00047	-.00015	-.00005	1.54255
5.260	30.835	.00523	.00018	-.00008	1.40969
5.260	34.876	.00387	.00055	-.00010	1.25103
5.260	39.036	.00492	.00038	-.00031	1.10672
5.260	43.015	.00876	.00066	-.00018	.98014
5.260	47.068	.01032	.00038	.00015	.86228
5.260	51.183	.01300	.00030	.00141	.75290
	GRADIENT	.00063	.00003	.00001	-.02040

RUN NO. 35/ 0 RN/L = 1.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.075	-.01207	-.00188	.00031	1.17268
7.320	15.152	-.01152	-.00201	.00024	1.60001
7.320	18.327	-.00789	-.00136	.00028	1.74900
7.320	23.040	-.00308	-.00087	.00060	1.68984
7.320	27.086	-.00086	-.00053	.00057	1.55227
7.320	30.934	.00603	.00070	.00054	1.39797
7.320	34.839	.00504	.00050	.00087	1.24811
7.320	39.008	.00668	.00078	.00113	1.10311
7.320	43.000	.00809	.00075	.00129	.97648
7.320	47.106	.01181	.00095	.00156	.85756
7.320	51.213	.01481	.00143	.00191	.74832
	GRADIENT	.00069	.00009	.00004	-.02073

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 A5 V7 W107 (BB818A) (13 SEP 73)

REFERENCE DATA

SREF = 2080.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.8600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 53/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.357	-.01348	-.00081	.00024	1.18820
5.260	15.383	-.00951	-.00047	.00022	1.56456
5.260	18.608	-.00676	-.00051	.00006	1.72742
5.260	23.193	-.00211	-.00054	.00018	1.68023
5.260	27.190	.00047	-.00015	-.00005	1.54253
5.260	30.835	.00523	.00018	-.00008	1.40969
5.260	34.876	.00387	.00055	-.00010	1.25103
5.260	39.036	.00492	.00038	-.00031	1.10672
5.260	43.015	.00876	.00066	-.00016	.98014
5.260	47.068	.01052	.00038	.00015	.86622
5.260	51.183	.01300	.00030	.00141	.75290
	GRADIENT	.00063	.00003	.00001	-.02040

RUN NO. 36/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	22.139	-.01198	-.00232	.00009	1.69865
7.320	25.283	-.00858	-.00163	.00025	1.61021
7.320	28.981	-.00664	-.00114	.00029	1.47765
7.320	33.202	.00391	.00005	.00020	1.31448
7.320	37.204	-.00164	-.00049	.00072	1.16567
7.320	40.999	.00261	-.00033	.00095	1.04001
7.320	44.987	.00541	.00017	.00094	.91933
7.320	49.133	.00804	.00048	.00104	.80498
7.320	53.184	.01009	.00048	.00124	.70232
7.320	56.103	.01238	.00055	.00145	.63238
7.320	58.301	.01348	.00076	.00157	.58100
	GRADIENT	.00070	.00007	.00004	-.03151

AMES3.5-166 OA23 B19 C7 E23 F3 H4 M8 R5 V7 W107 (080019) (13 SEP 73)

REFERENCE DATA

BREF =	2880.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0100 SCALF				

PARAMETRIC DATA

BETA =	.000	ELEVON =	-30.000
AILRON =	.000	BOFLAP =	-14.250
**DBRK =	55.000	RUDDER =	.000

RUN NO. 37/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.055	-.00956	-.00169	.00030	1.35567
7.320	15.154	-.00554	-.00112	.00026	1.69772
7.320	18.400	-.00409	-.00107	.00026	1.81291
7.320	23.049	-.00212	-.00082	.00025	1.72065
7.320	27.022	.00251	.00012	.00023	1.57196
7.320	30.707	.00645	.00025	.00030	1.41894
7.320	34.795	.00584	.00074	.00046	1.26194
7.320	38.989	.00448	.00028	.00073	1.11265
7.320	42.928	.00980	.00096	.00089	.98629
7.320	47.024	.01206	.00152	.00109	.86707
7.320	51.099	.01213	.00137	.00148	.75865
	GRADIENT	.00054	.00008	.00003	-.02399

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (886020) (13 SEP 73)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
AILRON = .000 BOFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 54/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.304	-.01055	-.00064	-.00005	1.49143
5.260	15.326	-.00731	-.00044	-.00017	1.76467
5.260	18.650	-.00538	-.00032	-.00038	1.85409
5.260	23.178	-.00047	-.00041	-.00006	1.74951
5.260	27.134	.00172	.00019	-.00018	1.59499
5.260	30.803	.00476	-.00022	-.00059	1.44152
5.260	34.823	.00365	.00036	-.00027	1.28049
5.260	39.025	.00503	.00043	-.00082	1.12808
5.260	42.922	.00702	.00033	-.00092	1.00127
5.260	47.034	.00930	.00025	-.00020	.87977
5.260	51.120	.01341	.00035	.00046	.76867
	GRADIENT	.00054	.00003	-.00000	-.02631

RUN NO. 38/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.033	-.01685	-.00274	.00031	1.41868
7.320	15.099	-.00803	-.00169	.00035	1.74673
7.320	18.326	-.00445	-.00110	.00043	1.83356
7.320	23.030	-.00301	-.00085	.00054	1.73861
7.320	27.036	-.00152	-.00020	.00048	1.58558
7.320	30.703	.00749	.00059	.00056	1.43470
7.320	34.784	.00402	.00047	.00059	1.27332
7.320	38.997	.00572	.00054	.00093	1.12276
7.320	42.945	.00788	.00067	.00094	.99503
7.320	47.039	.01144	.00093	.00126	.87544
7.320	51.119	.01180	.00093	.00151	.76552
	GRADIENT	.00064	.00009	.00003	-.02507

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (B86021) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 39/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.096	-.00437	-.00107	.00008	1.50250
7.320	15.167	-.00388	-.00118	.00013	1.79576
7.320	18.375	-.00147	-.00069	.00010	1.86690
7.320	23.015	-.00090	-.00066	.00021	1.76564
7.320	27.028	.00076	-.00024	.00015	1.60368
7.320	30.739	.00431	.00034	.00022	1.44621
7.320	34.806	.00622	.00060	.00023	1.28118
7.320	39.016	.01023	.00091	.00057	1.12908
7.320	42.965	.01045	.00074	.00085	.99889
7.320	47.065	.01310	.00084	.00122	.87669
7.320	51.117	.01700	.00135	.00124	.76670
	GRADIENT	.00055	.00007	.00003	-.02679

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (B86022) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = -10.000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 40/ 0 RN/L = 1.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.071	-.00734	-.00002	-.00437	1.52941
7.320	15.164	-.00817	-.00000	-.00565	1.81746
7.320	18.339	-.00645	.00059	-.00740	1.87014
7.320	23.077	-.00451	.00190	-.00941	1.74231
7.320	27.101	-.00194	.00302	-.01164	1.57794
7.320	30.713	-.00058	.00349	-.01354	1.42369
7.320	34.799	-.00056	.00443	-.01527	1.26071
7.320	38.986	.00062	.00498	-.01651	1.10955
7.320	42.941	-.00176	.00499	-.01754	.97943
7.320	47.029	.00130	.00529	-.01857	.85968
7.320	51.120	.00280	.00578	-.01966	.74940
	GRADIENT	.00026	.00016	-.00040	-.02777

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (880025) (13 SEP 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 57/ 0 RN/L = 2.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.334	-.06161	-.00122	-.00559	1.58655
5.260	15.373	-.05821	-.00307	-.00627	1.82394
5.260	18 664	-.05313	-.00468	-.00682	1.86421
5.260	23.245	-.04853	-.00670	-.00798	1.74941
5.260	27.160	-.04602	-.00806	-.00908	1.58658
5.260	30.805	-.04099	-.00728	-.01112	1.43776
5.260	31.027	-.04517	-.00679	-.01070	1.42570
5.260	34.943	-.03978	-.00741	-.01178	1.27044
5.260	39.122	-.03706	-.00817	-.01276	1.11808
5.260	43.096	-.03375	-.00877	-.01310	.98792
5.260	47.200	-.02803	-.00932	-.01246	.86621
5.260	51.219	-.02255	-.01013	-.01042	.75687
	GRADIENT	.00093	-.00019	-.00018	-.02831

RUN NO. 43/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.191	-.05307	-.00479	-.00363	1.41333
7.320	15.308	-.04638	-.00548	-.00429	1.73201
7.320	18.635	-.04175	-.00645	-.00492	1.82726
7.320	23.236	-.04024	-.00859	-.00581	1.73405
7.320	27.216	-.03782	-.00772	-.00724	1.57375
7.320	30.888	-.02977	-.00612	-.00866	1.42701
7.320	34.904	-.03229	-.00647	-.00968	1.26562
7.320	39.138	-.02573	-.00644	-.01016	1.11459
7.320	43.087	-.02351	-.00726	-.01060	.98695
7.320	47.194	-.02216	-.00814	-.01072	.86563
7.320	51.336	-.01809	-.00793	-.01048	.75460
	GRADIENT	.00082	-.00005	-.00020	-.02513

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (BB6026) (13 SEP 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = -10.000

RUN NO. 44/ 0 RN/L = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	2.448	-.02297	.00191	-.00175	-.57275
7.320	5.515	-.02124	.00115	-.00174	.03761
7.320	9.291	-.01439	.00082	-.00134	.92897
7.320	13.460	-.00731	-.00036	-.00075	1.61764
7.320	17.401	-.00540	-.00087	-.00064	1.83754
7.320	21.137	-.00107	-.00064	-.00057	1.81080
7.320	25.205	-.00074	-.00050	-.00041	1.66327
7.320	29.416	.00298	.00042	-.00052	1.48401
7.320	33.275	.00519	.00062	-.00040	1.32901
7.320	37.439	.00699	.00082	-.00033	1.17159
7.320	41.531	.01063	.00054	.00004	1.03095
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (BB6027) (13 SEP 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 85.000 RUDDER = .000

RUN NO. 45/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	2.362	-.01684	-.00031	-.00054	-.57604
7.320	5.443	-.01716	-.00076	-.00052	.00975
7.320	9.105	-.01078	-.00160	-.00039	.87413
7.320	13.290	-.00391	-.00159	-.00015	1.57252
7.320	17.316	-.00372	-.00180	-.00023	1.82623
7.320	20.983	.00253	-.00078	-.00017	1.81155
7.320	25.085	.00388	-.00035	-.00024	1.67040
7.320	29.271	.00476	.00025	-.00036	1.49267
7.320	33.242	.00457	.00025	-.00039	1.32971
7.320	37.431	.00794	.00079	-.00022	1.17241
7.320	41.374	.01198	.00095	.00007	1.03667
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (B88028) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 85.000 RUDDER = -10.000

RUN NO. 49/ 0 RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.998	-.02484	.00532	-.00282	-.60134
7.320	5.065	-.02053	.00484	-.00280	-.09346
7.320	8.851	-.01644	.00293	-.00216	.80381
7.320	13.010	-.00616	.00119	-.00117	1.56996
7.320	16.934	-.00137	.00056	-.00044	1.86572
7.320	20.648	.00228	.00030	-.00036	1.84977
7.320	24.757	.00232	.00091	-.00020	1.69319
7.320	28.964	.00565	.00131	-.00022	1.51277
7.320	32.878	.00497	.00065	-.00000	1.34891
7.320	36.989	.01006	.00140	.00017	1.19106
7.320	41.061	.00811	.00070	.00052	1.04785
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4 (B86029) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 46/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	11.999	-.01134	-.00136	.00009	.88012
7.320	15.099	-.00927	-.00088	.00007	1.35921
7.320	18.313	-.00711	-.00102	.00010	1.61105
7.320	23.008	-.00613	-.00084	.00003	1.62535
7.320	27.034	-.00490	-.00035	.00003	1.50182
7.320	30.723	.00616	.00006	.00036	1.37535
7.320	34.814	.00194	.00046	.00035	1.21956
7.320	38.975	.00365	.00017	.00041	1.08119
7.320	42.950	.00454	.00039	.00052	.95763
7.320	47.039	.00666	.00051	.00070	.84205
7.320	51.073	.00776	.00073	.00080	.73895
	GRADIENT	.00050	.00005	.00002	-.01445

AMES3.5-168 OA23 B19 C7 F5 (BB6030) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -14.250

RUN NO. 47/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.008	-.01376	-.00186	.00032	1.08907
7.320	15.055	-.00934	-.00144	.00032	1.51240
7.320	18.350	-.00946	-.00109	.00032	1.69824
7.320	23.026	-.00518	-.00033	.00031	1.65731
7.320	27.020	-.00460	-.00029	.00031	1.54036
7.320	30.676	.00046	-.00040	.00047	1.38059
7.320	34.784	-.00160	-.00016	.00064	1.23510
7.320	38.981	.00248	.00034	.00068	1.08996
7.320	42.908	.00357	.00031	.00072	.96621
7.320	47.000	.00630	.00082	.00079	.84996
7.320	51.109	.01028	.00152	.00093	.74195
	GRADIENT	.00055	.00007	.00002	-.01678

AMES3.5-168 OA23 B19 C7 (BB6031) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000

RUN NO. 48/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	11.985	-.00566	-.00092	.00005	1.09872
7.320	15.092	-.00358	-.00064	.00008	1.50773
7.320	18.321	-.00240	-.00028	.00006	1.68340
7.320	23.051	-.00068	.00001	.00005	1.64323
7.320	27.030	-.00161	.00023	.00001	1.52182
7.320	30.719	.00328	.00037	.00002	1.37031
7.320	34.782	.00323	.00064	.00039	1.22457
7.320	39.004	.00248	.00012	.00035	1.07619
7.320	42.956	.00507	.00053	.00046	.95303
7.320	47.029	.00429	.00045	.00061	.83601
7.320	51.005	.00647	.00079	.00067	.73201
	GRADIENT	.00029	.00004	.00002	-.01904

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (886032) (13 SEP 73)

REFERENCE DATA

SREF = 2394.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 58/ 0 RN/L = 2.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	12.331	-.05175	-.00634	-.00326	1.35494
10.290	15.416	-.04526	-.00682	-.00387	1.68679
10.290	18.705	-.04204	-.00734	-.00477	1.79947
10.290	23.255	-.03978	-.00830	-.00625	1.71965
10.290	27.286	-.03847	-.00750	-.00719	1.56794
10.290	30.895	-.03369	-.00733	-.00944	1.41380
10.290	34.974	-.03819	-.00764	-.00990	1.25919
10.290	39.163	-.03574	-.00804	-.01118	1.10761
10.290	43.130	-.03225	-.00860	-.01127	.97873
10.290	47.231	-.02640	-.00923	-.01212	.85871
10.290	51.289	-.02385	-.00938	-.01253	.75063
	GRADIENT	.00058	-.00007	-.00026	-.02409

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (886033) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1078.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 59/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	12.239	-.01465	-.00132	-.00004	1.45528
10.290	15.326	-.00807	-.00061	-.00004	1.75862
10.290	18.579	-.00694	-.00074	-.00005	1.85735
10.290	23.086	-.00447	-.00032	-.00009	1.74973
10.290	27.176	-.00172	.00022	-.00046	1.58775
10.290	30.827	.00500	.00031	.00063	1.43448
10.290	34.849	.00069	.00022	-.00065	1.27157
10.290	39.029	.00313	.00034	-.00022	1.11793
10.290	42.976	.00800	.00070	-.00016	.98800
10.290	47.091	.01093	.00042	.00036	.86705
10.290	51.183	.01486	.00039	.00081	.75569
	GRADIENT	.00066	.00004	.00001	-.02621

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R3 V7 W107 (BB6034) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 55.000 RUDDER = .000

RUN NO. 60/ 0 RN/L = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	12.291	-.00802	.00113	-.00063	3.49845
10.290	15.344	.00042	.00057	-.00021	1.89037
10.290	18.591	.00016	.00053	-.00070	1.83641
10.290	23.183	.00257	.00060	-.00072	1.73544
10.290	27.126	.00696	.00117	-.00072	1.59010
10.290	30.833	.00914	.00112	-.00006	1.43833
10.290	34.836	.01(8	.00137	-.00074	1.27199
10.290	39.064	.00950	.00097	-.00018	1.11733
10.290	42.955	.01359	.00113	.00022	.98854
10.290	47.075	.01261	.00069	-.00169	.86558
10.290	51.147	.01606	.00025	.00152	.75533
	GRADIENT	.00052	-.00000	.00002	-.04981

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R3 V7 W107 (BB6035) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 61/ 0 RN/L = 1.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	12.281	-.01811	.00101	-.00078	11.49910
10.290	15.323	-.00972	-.00055	-.00042	2.73505
10.290	18.604	-.00789	-.00043	-.00039	2.00869
10.290	23.196	-.00593	-.00066	-.00061	1.73014
10.290	27.158	-.00275	-.00047	-.00026	1.56895
10.290	30.858	.00546	-.00011	-.00008	1.41010
10.290	34.089	.00095	-.00040	-.00016	1.24755
10.290	39.043	.00492	.00001	.00052	1.09708
10.290	42.981	.01164	.00029	.00145	.96966
10.290	47.096	.01144	-.00016	.00056	.84866
10.290	51.174	.01550	-.00008	.00111	.73986
	GRADIENT	.00077	.00000	.00005	-.14734

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (886036) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
AILRON = .000 ODFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 62/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	12.274	-.00985	-.00080	-.00003	1.55437
10.290	15.329	-.00856	-.00104	-.00006	1.82[illegible]
10.290	18.609	-.00603	-.00083	.00018	1.84704
10.290	23.171	-.00377	-.00040	.00003	1.71310
10.290	27.188	-.00164	-.00052	-.00021	1.53884
10.290	30.881	.00481	-.00032	.00036	1.37399
10.290	34.863	.00368	.00031	-.00018	1.21635
10.290	39.073	.00617	.00038	.00040	1.06608
10.290	43.017	.00958	.00047	.00059	.94007
10.290	47.086	.01255	.00047	.00047	.82287
10.290	51.152	.01507	.00023	.00134	.71696
	GRADIENT	.00065	.00004	.00003	-.02915

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R3 V7 W107 (886037) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 ODFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 63/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	12.246	-.01392	-.00162	.00018	[illegible]16405
10.290	15.348	-.00782	-.00087	.00004	1.[illegible]3734
10.290	18.582	-.00678	-.00065	.00019	1.73143
10.290	23.213	-.00223	-.00008	-.00011	1.67717
10.290	27.099	.00067	.00026	-.00016	1.54224
10.290	30.785	.00491	.00005	.00011	1.40264
10.290	34.836	.00348	.00035	.00039	1.24387
10.290	39.032	.00491	.00038	.00079	1.09781
10.290	42.986	.00761	.00022	.00142	.97202
10.290	47.129	.00682	.00033	.00042	.85260
10.290	51.183	.01128	.00037	.00098	.74769
	GRADIENT	.00056	.00004	.00002	-.02065

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (B86036) (13 SEP 73)

REFERENCE DATA

SREF = 2660.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 64/ 0 RN/L = 1.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	12.158	-.01337	-.00128	.00016	1.05887
10.290	15.276	-.00869	-.00083	.00010	1.49365
10.290	18.507	-.00460	-.00074	.00002	1.65443
10.290	23.170	-.00265	-.00024	.00006	1.63681
10.290	27.119	.00607	.00124	-.00002	1.54396
10.290	30.818	.00579	.00051	.00025	1.39083
10.290	34.946	.00726	.00134	-.00007	1.22688
10.290	39.113	.01066	.00199	-.00030	1.08813
10.290	42.995	.01251	.00161	.00021	.96806
10.290	47.105	.01013	.00208	.00048	.85174
10.290	51.190	.01242	.00160	.00038	.74568
	GRADIENT	.00065	.00009	.00001	-.01779

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (E98023) (17 SEP 73)

REFERENCE DATA

SREF = 2660.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.6000 IN. YMRP = .0000 IN.
BREF = 936.6600 IN. ZMRP = 400.0000 IN.
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = -10.000 BDFLAP = -14.250
SPDBRK = 55.000 RUDDER = .000

RUN NO. 41/ 0 RN/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.154	-.01015	-.00234	-.00211	1.42417
7.320	15.308	-.00716	-.00154	-.00262	1.74291
7.320	18.550	-.00706	-.00114	-.00339	1.83537
7.320	23.170	-.00700	-.00104	-.00481	1.73850
7.320	27.160	-.00464	-.00022	-.00616	1.57728
7.320	30.856	.00390	.00112	-.00762	1.43039
7.320	34.955	.00008	.00163	-.00933	1.26582
7.320	39.067	.00017	.00171	-.01 [illegible]4	1.11752
7.320	43.007	.00036	.00231	-.01163	.99089
7.320	47.136	.00333	.00268	-.01[illegible]4	.86912
7.320	51.256	.00555	.00333	-.01373	.75895
	GRADIENT	.00037	.00014	-.00032	-.02533

AME93.5-168 OA23 B10 C7 E23 F5 M4 N8 R5 V7 W107 (886024) (17 SEP 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.4800 IN.		
LREF =	474.8000 IN.	YMRP =	.0000 IN.		
BREF =	936.6800 IN.	ZMRP =	400.0000 IN.		
SCALE =	.0100 SCALE				

PARAMETRIC DATA

BETA =	.000	ELEVON =	-20.000
AILRON =	-10.000	BOFLAP =	-14.250
SPDBRK =	55.000	RUDDER =	.000

RUN NO. 42/ 0 RN/L = 2.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.054	-.01011	-.00214	-.00175	1.40977
7.320	15.149	-.00834	-.00198	-.00160	1.72992
7.320	18.352	-.00331	-.00102	-.00178	1.82630
7.320	23.060	-.00030	-.00055	-.00221	1.73891
7.320	27.093	.00070	-.00012	-.00313	1.58382
7.320	30.705	.00181	-.00036	-.00363	1.43410
7.320	34.799	.00290	.00048	-.00465	1.27171
7.320	38.982	.00291	.00016	-.00564	1.12220
7.320	42.934	.00304	.00056	-.00658	.99297
7.320	47.034	.00492	.00084	-.00757	.87279
7.320	51.161	.00492	.00088	-.00844	.76180
	GRADIENT	.00035	.00008	-.00018	-.02487